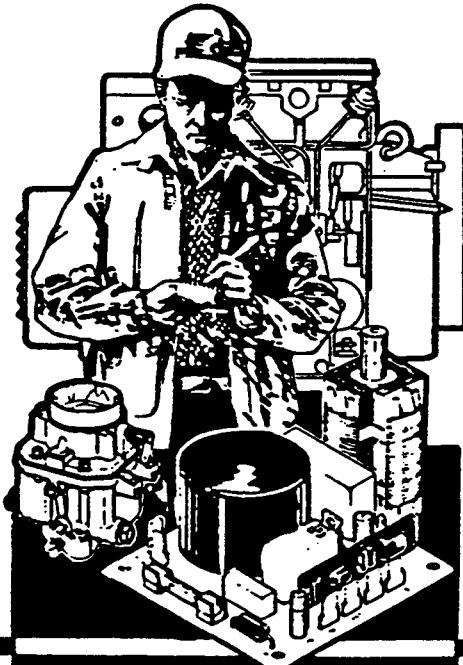


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**Onan**

**Parts  
Manual  
RJC**

**GenSet**



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**Onan Service Parts**

974-0220  
3-90 (Spec A-AC)  
Replaces 6-81 (Spec A-AC)  
Printed in U.S.A.

## SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of the equipment and replacement of parts. Please read and observe.



**This symbol warns of immediate hazards which will result in severe personal injury or death.**



**This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.**



**This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.**

## MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO., and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below:

---

MODEL AND SPEC NO.

---

SERIAL NO.

## PRODUCT SAFETY PRECAUTIONS



**Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.**



**Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!**



**Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives, or using solvents take all necessary precautions not to ingest, breathe the fumes, or contact the liquids. Use adequate ventilation and wear protective gloves, masks and clothing!**

## Introduction

This catalog applies to the standard RJC Generator Sets as listed below. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the model and specification number from the set nameplate, select the Parts Key No. (1, 2, etc. in the last column) that applies to your set Model and Spec No. This Parts Key No. represents parts that differ between models. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left generating set sides are determined by Facing the engine end (front).

## Generator Set Data Table

MODEL AND SPECIFICATION	COOLING SYSTEM	ELECTRICAL DATA					PARTS KEY NO.
		WATTS	VOLTS	HERTZ	WIRE	PHASE	
12.5RJC-3R/*	Radiator	12,500	120/240	60	4	1	1
12.5RJC-3CR/*	Radiator	12,500	120/240	60	4	1	
12.5RJC-4R/*	Radiator	12,500	120/208	60	4	3	
12.5RJC-4XR/*	Radiator	12,500	277/480	60	4	3	
12.5RJC-5DR/*	Radiator	12,500	120/240	60	4	3	
12.5RJC-9XR/*	Radiator	12,500	347/600	60	4	3	
12.5RJC-18R/*	Radiator	12,500	***	60	12	3	
15.0RJC-3R/*	Radiator	15,000	120/240	60	4	1	2
15.0RJC-3CR/*	Radiator	15,000	120/240	60	4	1	
15.0RJC-4R/*	Radiator	15,000	120/208	60	4	3	
15.0RJC-4XR/*	Radiator	15,000	277/480	60	4	3	
15.0RJC-5DR/*	Radiator	15,000	120/240	60	4	3	
15.0RJC-9XR/*	Radiator	15,000	347/600	60	4	3	
15.0RJC-18R/*	Radiator	15,000	***	60	12	3	
12.5RJC-53R/*	Radiator	12,500	120/240	50	4	1	2
12.5RJC-53CR/*	Radiator	12,500	120/240	50	4	1	
12.5RJC-54R/*	Radiator	12,500	120/208	50	4	3	
12.5RJC-54XR/*	Radiator	12,500	277/480	50	4	3	
12.5RJC-55DR/*	Radiator	12,500	120/240	50	4	3	
12.5RJC-3R/*	City Water Cooled	12,500	120/240	60	4	1	3
12.5RJC-3CR/*	City Water Cooled	12,500	120/240	60	4	1	
12.5RJC-4R/*	City Water Cooled	12,500	120/208	60	4	3	
12.5RJC-4XR/*	City Water Cooled	12,500	277/480	60	4	3	
12.5RJC-5DR/*	City Water Cooled	12,500	120/240	60	4	3	
12.5RJC-9XR/*	City Water Cooled	12,500	347/600	60	4	3	
12.5RJC-18R/*	City Water Cooled	12,500	***	60	12	3	
15.0RJC-3R/*	City Water Cooled	15,000	120/240	60	4	1	4
15.0RJC-3CR/*	City Water Cooled	15,000	120/240	60	4	1	
15.0RJC-4R/*	City Water Cooled	15,000	120/208	60	4	3	
15.0RJC-4XR/*	City Water Cooled	15,000	277/480	60	4	3	
15.0RJC-5DR/*	City Water Cooled	15,000	120/240	60	4	3	
15.0RJC-9XR/*	City Water Cooled	15,000	347/600	60	4	3	
15.0RJC-18R/*	City Water Cooled	15,000	***	60	12	3	
12.5RJC-53R/*	City Water Cooled	12,500	120/240	50	4	1	4
12.5RJC-53CR/*	City Water Cooled	12,500	120/240	50	4	1	
12.5RJC-54R/*	City Water Cooled	12,500	120/208	50	4	3	
12.5RJC-54XR/*	City Water Cooled	12,500	277/480	50	4	3	
12.5RJC-55DR/*	City Water Cooled	12,500	120/240	50	4	3	
Pennsylvania Approved Sets		See special parts list following Standard Parts Section.					

\* - New model designations shown, begin during 1969. Previous designations did not use a decimal in the kW rating. Example: 12.5RJC was formerly 12.RJC and 15.0RJC was formerly 15RJC. Also previously a number 8 was used in the model to designate unhouse models. NOTE: Previously the C designation was not used in the model.

\* - The Specification Letter Advances (A to B, B to C, etc.) with manufacturing changes.

\*\*\* - Set is reconnectible for 120 volt 2 wire, 240 volt 2 wire to 120/240 volt 3 wire service.

## STANDARD PARTS SECTION

This section contains standard parts applicable to models listed in the generator set data table.

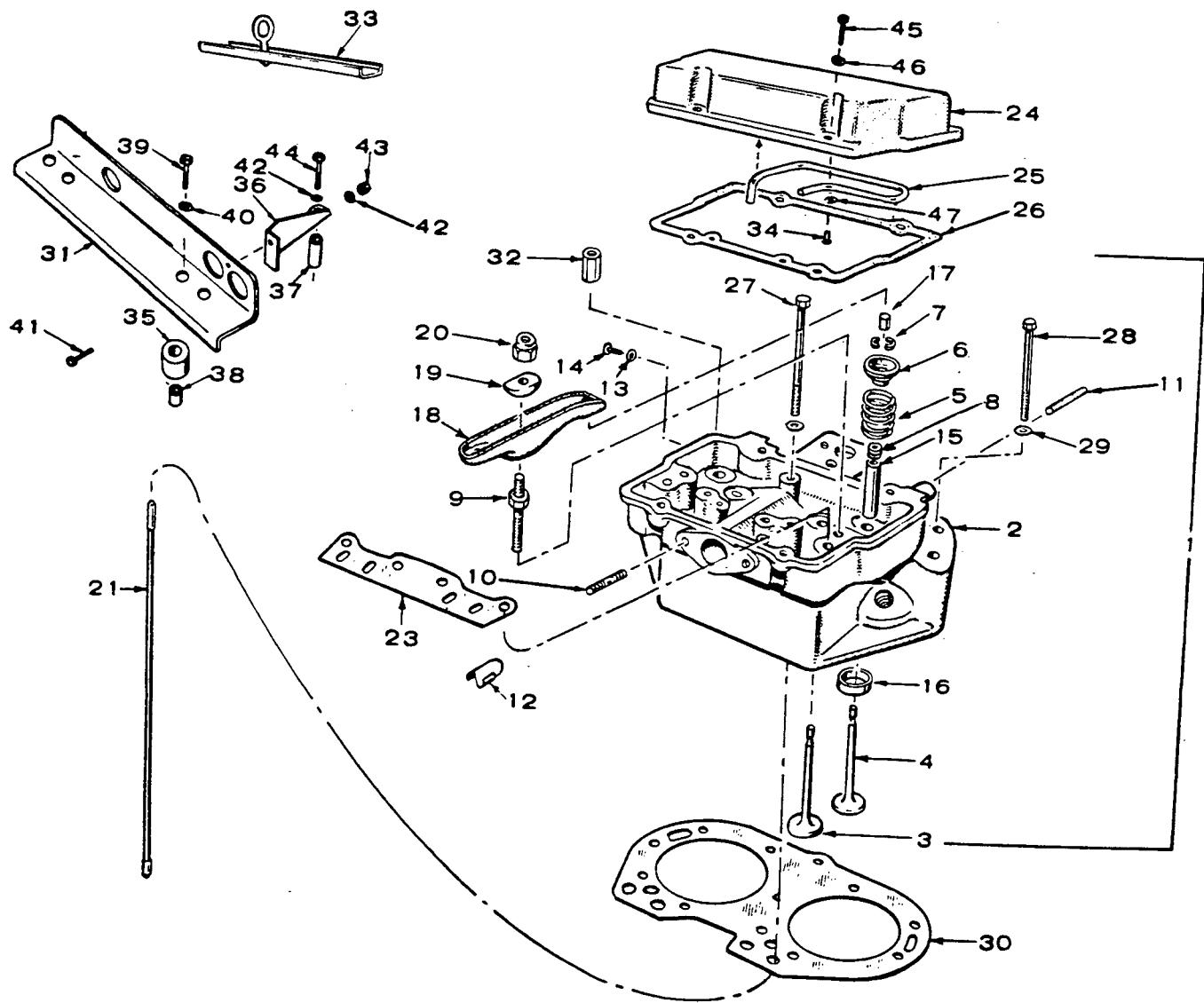
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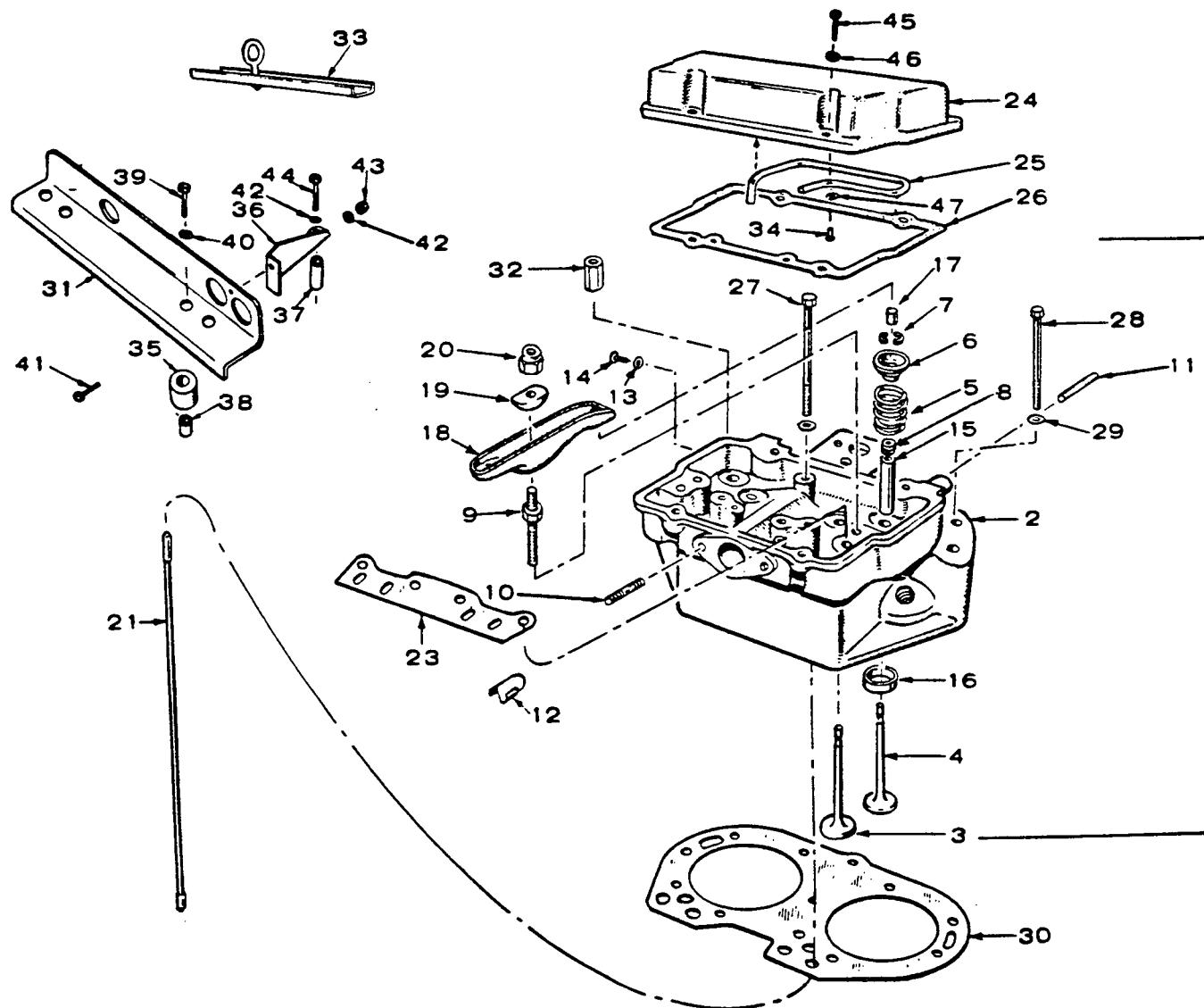
### Cylinder Head, Valve and Rocker



# Cylinder Head, Valve and Rocker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Head Assembly, Cylinder (Includes Parts Marked x)	16			xxInsert, Valve Seat Intake, Gasoline Sets
			Key 1 and 2	110-1214	4	+\$#	Standard
110-1343	2		Gasoline Sets (Includes Parts Marked +)	110-1214-02	4		.002" Oversize
110-1416	2		Gas & Gas-Gasoline Sets (Includes Parts Marked *)	110-1214-05	4		.005" Oversize
			Key 3 and 4	110-1214-10	4		.010" Oversize
110-2879	2		Gasoline Sets - City Water Cooled - Without Heat Exchanger (Includes Parts Marked 11)	110-1287	4	*@1	Standard
				110-1287-02	4		.002" Oversize
110-1483	2		Gas-Gasoline Sets - With Heat Exchanger - Without Heat Exchanger - City Water Cooled (Includes Parts Marked 11)	110-1287-05	4		.005" Oversize
				110-1287-10	4		.010" Oversize
				110-1287-25	4		.025" Oversize
2			xHead, Cylinder (Includes Parts Marked xx)	110-1215	4		Exhaust Standard - All Sets
				110-1215-02	4		.002" Oversize
110-1347	2		+ Gasoline Sets - Standard	110-1215-05	4		.005" Oversize
110-1399	2		* Gas & Gas-Gasoline Sets	110-1215-10	4		.010" Oversize
110-1432	2		@ Gas & Gas-Gasoline Sets - City Water Cooled - Without Heat Exchanger	110-1215-25	4		.025" Oversize
110-1626	2	#	Gasoline Sets - With Heat Exchanger - City Water Cooled	17	110-0859	8	Cap, Valve Stem
				18			Arm, Rocker
110-1482	2	1	Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled	19	115-0128	4	Exhaust
				20	115-0129	4	Intake
				21	115-0127	8	Ball, Rocker Arm
				22	115-0150	8	Locknut, Rocker Arm
				23	115-0154	8	Rod, Valve Push (Steel)
				24	115-0196	2	Guide, Push Rod
					115-0134	2	Cover, Rocker
3			xValve, Intake		115-0179	2	Gasoline Sets (Includes Parts Marked **)
						2	Gas & Gas-Gasoline Sets (Includes Parts Marked tt)
110-1218	4	+\$#	Gasoline Sets	25			Line, Oil - Rocker Cover
110-1286	4	*@1	Gas & Gas-Gasoline Sets		120-0628	2	** Gasoline Sets Only
4	110-1219	4	xValve, Exhaust		120-0626	2	tt Gas & Gas-Gasoline Sets
5	110-1221	8	xSpring, Valve		26	115-0130	Gasket, Rocker Cover
6	110-1220	8	xRetainer, Valve Spring		27	110-1225	10 Bolt, Cylinder Head (Special)
7	110-0858	16	xLock, Valve Spring Retainer		28	800-0501	14 Screw, Hex Head - Cylinder Head (Special)
8	509-0090	4	xSeal, Oil - Intake Valve - Includes Retainer Rings		29	526-0174	14 Washer, Flat - Cylinder Head .406 ID x .781 OD x .1345 Thk)
9	115-0152	8	xStud, Rocker Arm		30	110-1211	2 Gasket, Head
10	520-0338	4	xStud, Intake Manifold				
11	520-0608	8	xStud, Exhaust Manifold				
12	110-1312	2	xBaffle, Fuel Distributor				
13	850-0030	4	xWasher, Lock (#10 Med)				
14	-	4	xScrew, Round Head - Machine (#10-32 x 3/16")				
15			xxGuide, Valve Intake & Exhaust Gasoline Sets				
				110-1501	8	+\$#	Standard
							.001" Oversize
				110-1501-01	8		Intake, Gas & Gas-Gasoline Sets
				110-1501	4	*@1	Standard
							.001" Oversize - Exhaust,
				110-1501-01	4		Gas & Gas-Gasoline Sets
				110-1392	4	*@1	Standard
							.001" Oversize
				110-1392-01	4		

## Cylinder Head, Valve and Rocker



## Cylinder Head, Valve and Rocker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
31	403-0690	1	Bracket, Lifting - Unhoused Sets	44	800-0038	1	Screw, Cap - Hex Head Brace Mounting (5/16-18 x 3-1/4")
32	403-0620	2	Nut, Extension - Spec A Only	45	800-0030	8	Screw, Cap - Hex Head Rocker Cover Mounting (5/16-18 x 1-1/4")
33			Bar Assembly, Lifting - Spec A Only (Order 403-0690, (2) 809-0091 & 850-0060)	-6	850-0045	8	Washer, Lock - Rocker Cover Mounting (5/16")
34	815-0562	2††**	Screw, Round Head - Rocker Cover Oil Line (#10 x 5/16")	47	526-0130	1††**	Washer, Flat (17/64 ID x 1 OD x 1/16" Thk)
35	402-0361	2	Cushion, Vibration				
36	403-0890	1	Brace, Lifting Bracket				
37	403-0826	1	Spacer, Lifting Bracket				
38	402-0362	2	Bushing, Spacer				
39	800-0094	2	Screw, Cap - Hex Head Lifting Bracket Mounting (1/2-13 x 2")				
40	526-0100	2	Washer, Flat - Lifting Bracket Mounting (9/16" OD x 1-3/8" OD x 7/64" Thk)				
41	800-0025	1	Screw, Cap - Hex Head Brace to Lifting Bracket (5/16-18 x 5/8")				
42	850-0045	2	Washer, Lock - Brace Mounting (5/16")				
43	862-0015	1	Nut, Hex - Brace to Lifting Bracket (5/16-18)				

† - Parts in Gasoline Sets - Standard.

§ - Parts in Gasoline Sets - City Water Cooled Without Heat Exchanger.

\* - Parts in Gas-Gasoline Sets.

@ - Parts in Gas-Gasoline Sets - City Water Without Heat Exchanger.

# - Parts in Gasoline Sets - With Heat Exchanger - City Water Cooled.

¶ - Parts in Gas-Gasoline Sets with Heat Exchanger - Without Heat Exchanger - City Water Cooled.

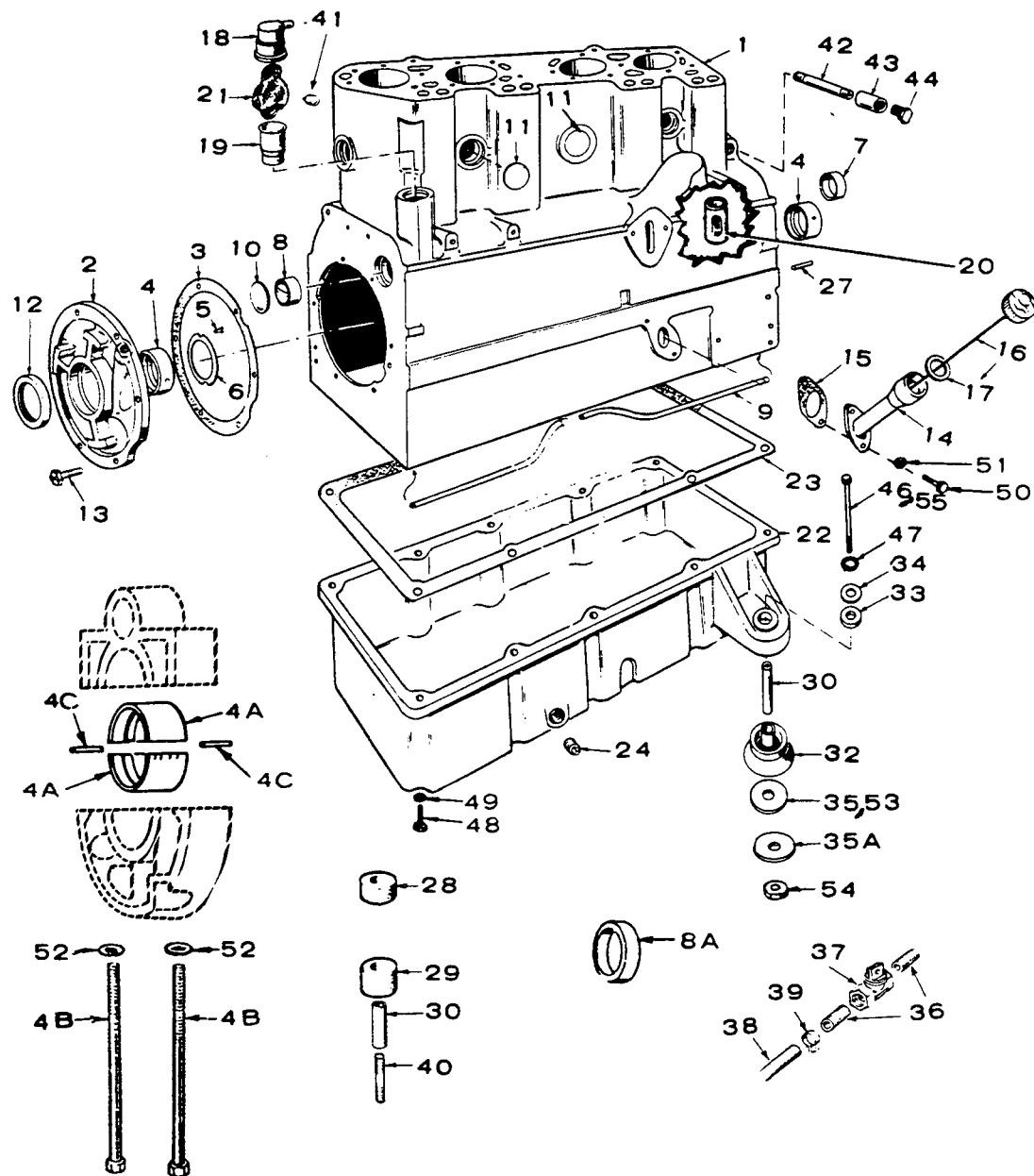
\*\*- Parts in Rocker Cover 115-0134.

††- Parts in Rocker Cover 115-0179.

x - Parts Included in Cylinder Head Assembly.

xx- Parts Included in Cylinder Head.

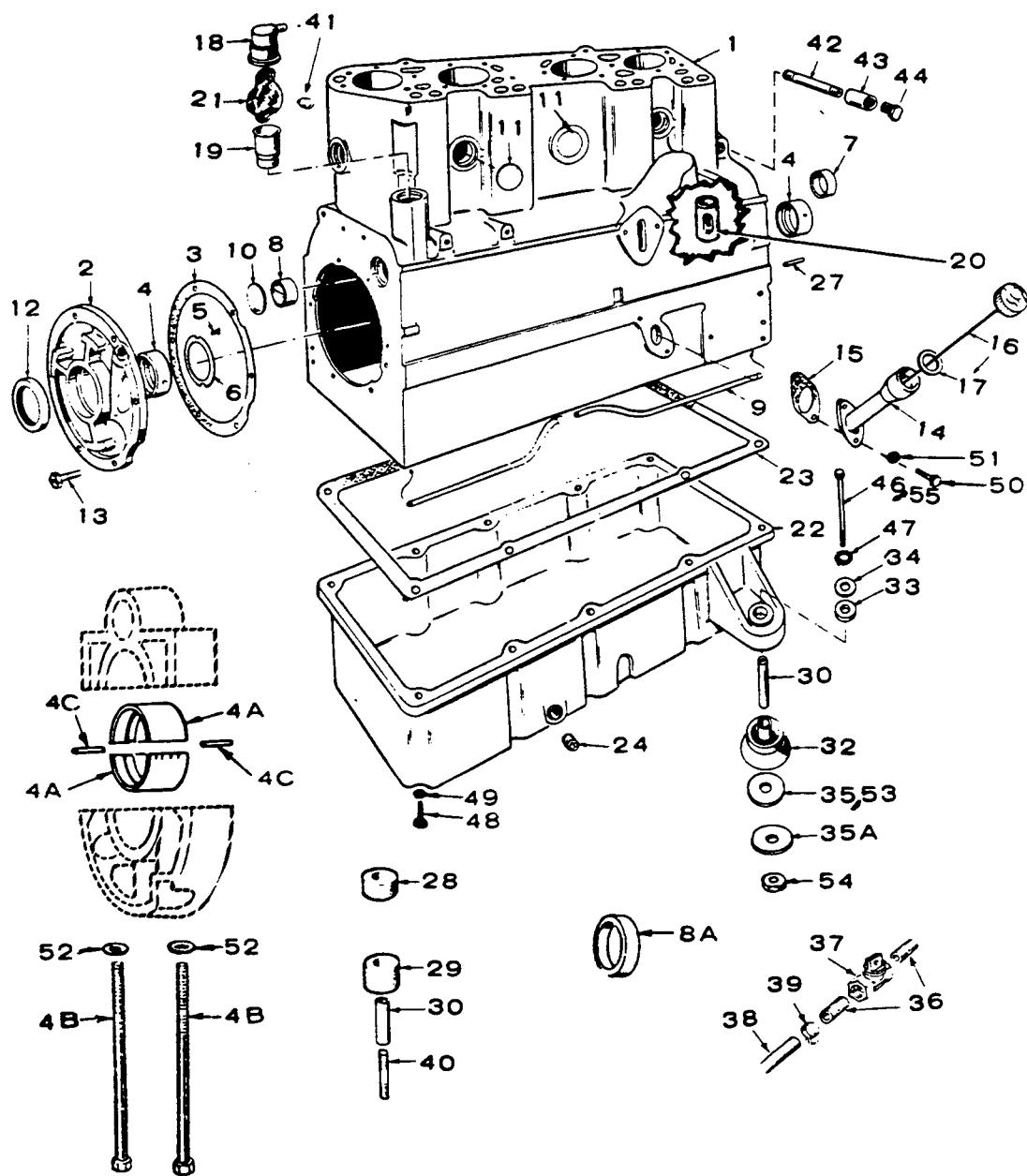
Cylinder Block and Oil Base



**Cylinder Block and Oil Base**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Block Assembly, Cylinder (Includes Parts Marked *)	20	115-0132	8	*Tappet, Valve
110-1408	1		Key 1,2	115-0195	8		Key 3,4
110-1361	1		Key 3,4	21	123-0865	1	Filter, Breather Tube
2 101-0337	1		*Plate, Rear Bearing (Less Bearing and Pins)	123-1283	1		Spec A through AA
3 101-0386	1		*Gasket Kit, Rear Bearing Plate (Includes Shims)	22	102-0476	1	Begin Spec AB
4			*Bearing, Precision Main (Front or Rear)				Base, Oil
101-0359	2		Standard				Spec A Only - No Longer Available - For Replacement Order:
101-0359-02	2		.002" Undersize				1 of 102-0539 Base
101-0359-10	2		.010" Undersize				1 of 231-0111 Adapter
101-0359-20	2		.020" Undersize				2 of 402-0285 Mount
101-0359-30	2		.030" Undersize				1 of 402-0287 Mount
4A			*Bearing, Half - Precision Main - Center	23	102-0475	1	1 of 402-0323 Hardware Package
101-0361	2		Standard	24	505-0056	1	Gasket, Oil Base
101-0361-02	2		.002" Undersize	27	516-0141	2	Plug (1/2")
101-0361-10	2		.010" Undersize	28	402-0036	4	*Pin, Dowel Gear Cover Locating
101-0361-20	2		.020" Undersize	29			Mount, Vibration, Cylindrical Shaped, Upper, Spec A Only
101-0361-30	2		.030" Undersize				Mount, Vibration, Cylindrical Shaped, Lower - Spec A Only
4B 101-0342	2		*Bolt, Center Bearing Housing (Special)	402-0038		2	Engine End
4C 516-0149	2		*Pin, Center Bearing Housing	402-0251		2	Generator End
5 516-0072	4		*Pin, Crankshaft Thrust Washer	30			Bushing, Spacer, Vibration Mount
6 104-0420	2		*Washer, Crankshaft Thrust (Special)	402-0046		4	Spec A Only
7 101-0363	1		*Bearing, Precision Cam Front (Standard Only)	402-0290		4	§t Begin Spec B
8 101-0365	1		*Bearing, Precision Cam Rear (Standard Only)	402-0285		2	Cushion, Vibration, Cone Shaped - Begin Spec B
8A 101-0364	1		*Bearing, Precision Cam Center (Standard Only)	402-0287		2	Engine End
9			*Tube, Crankcase Oil	402-0286		2	Generator End - Spec B through Z
120-0586	1		Front				Generator End - Begin Spec
120-0585	1		Rear	402-0285		2	AA - Skid Base Models
10 517-0053	1		*Plug, Expansion Rear Cam Opening	402-0287		2	Engine End
11			*Plug, Cylinder Block - Expansion	33	402-0282	4	Generator End
517-0096	2		Left Side (Accessory) 1-9/16" Ends			4	§tSnubber, Shock Mounting Begin Spec B
517-0097	1		1-3/4" Center	35			4
517-0059	2		Right Side 1-7/16"	526-0198		4	§tWasher, Flat (Use Only With Cone Shaped Cushions)
517-0059	1		Rear End 1-7/16"	35A 526-0195		4	(29/64 ID x 1-1/2" OD x 1/8" Thk)
517-0059	1		Front End (City Water Only) 1-7/16" Water Pump Hole	35A 526-0195		4	Washer, Flat (Use Only With Cone Shaped Cushions)
12 509-0086	1		Seal, Crankshaft Rear (in Gasket Kit 168-0099)	36		4	§t 5/8 ID x 1-1/2" OD x 1/16" Thk
13 805-0019	6		*Bolt, Place - Rear Bearing Plate	505-0002		4	§t 29/64 ID x 3-1/4" OD x 1/8" Thk - Begin Spec B
14 123-0649	1		Tube, Oil Fill	505-0100		2	3 29/64 ID x 3-1/4" OD x 1/8" Thk - Skid Base Models
15 123-0667	1		Gasket, Oil Fill Tube	37	504-0011	1	Nipple, Oil Drain Skid Base Models
16 123-0698	1		Cap and Indicator				Key 1,2
17 123-0191	1		Gasket, Cap	38	503-0316	1	Valve, Oil Drain - Key 1,2 - Skid Base Models
18 123-0787	1		Cap, Breather Tube				Hose, Oil Drain - Key 1,2 Skid Base Models
19 123-0645	1		Tube, Breather	39	503-0197	1	Clamp, Oil Drain Hose Key 1,2 - Skid Base Models

Cylinder Block and Oil Base



## Cylinder Block and Oil Base

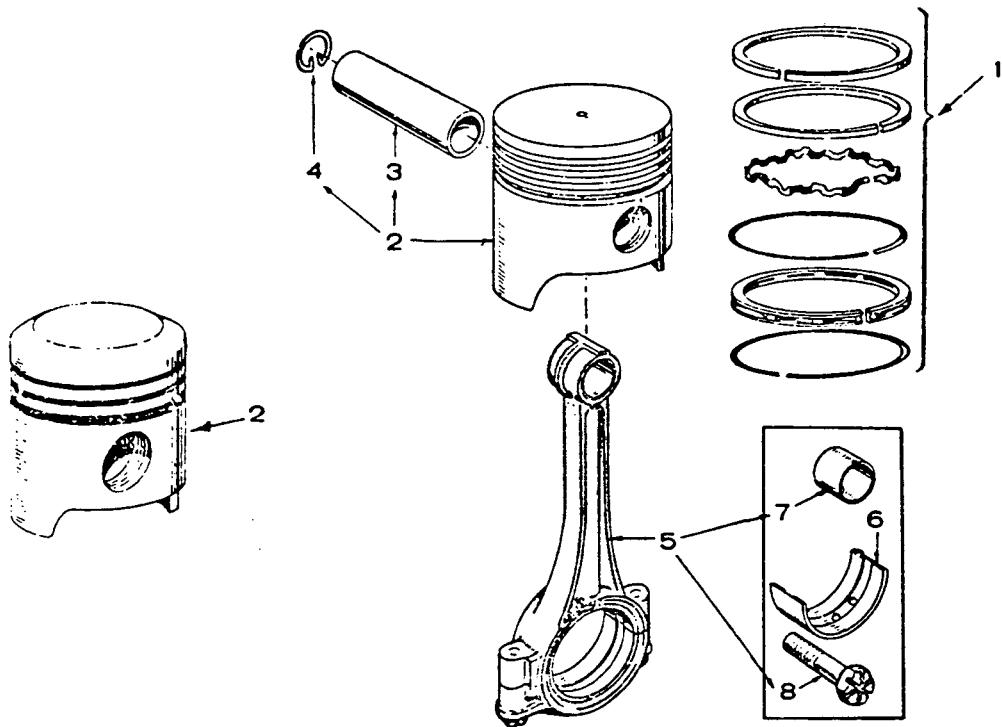
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
40	520-0650	4	Stud, Vibration Mount Key 1,2 - Spec A Only	51	850-0045	2	Washer, Lock - Oil Fill Tube Mounting (5/16")
41	505-0266	2	Plug (3/8") Cylinder Block Key 1,2	52	526-0035	2	*Washer, Flat - Center Main Bearing Housing (17/32 ID x 7/8 OD x 1/8" Thk)
42	505-0071	1	Nipple, Water Drain Spec A and B (1/4 x 2")	53	526-0199	1	§Washer (Notched) - Generator End - Skid Base Models (29/64 ID x 3-1/4" x 1/8" Thk)
	505-0449	1	Begin Spec C (1/4 x 6")	54	862-0004	4	†§Nut, Hex - Skid Base Models (7/16"-14)
43	505-0027	1	Coupling (1/4"), Water Drain	55	816-0212	4	†Bolt, Carriage (7/16"-14 x 5-1/2") - Begin Spec B
44	502-0153	1	Plug (1/4"). Washer Drain Screw, Cap - Hex Head -				
46			Cushion Mounting				
	800-0081	4	Standard (7/16-14 x 3-1/2")				
	800-0082	4	§ Skid Base (7/16-14 x 3-3/4")				
47	850-0055	4	§†Washer, Lock (7/16") Standard Skid Base Models				
48	800-0072	10	Screw, Cap - Hex Head Oil Base Mounting (7/16-14 x 1-1/4")				
49	850-0055	10	Washer, Lock - Oil Base Mounting (7/16")				
50	800-0026	2	Screw, Cap - Hex Head - Oil Fill Tube Mounting (5/16-18 x 3/4")				

\* - Parts Included in Cylinder Block Assembly.

† - Parts Included in Mounting Hardware Package  
#402-0291 (Enough for 1 Assembly Only) Begin  
Spec B.

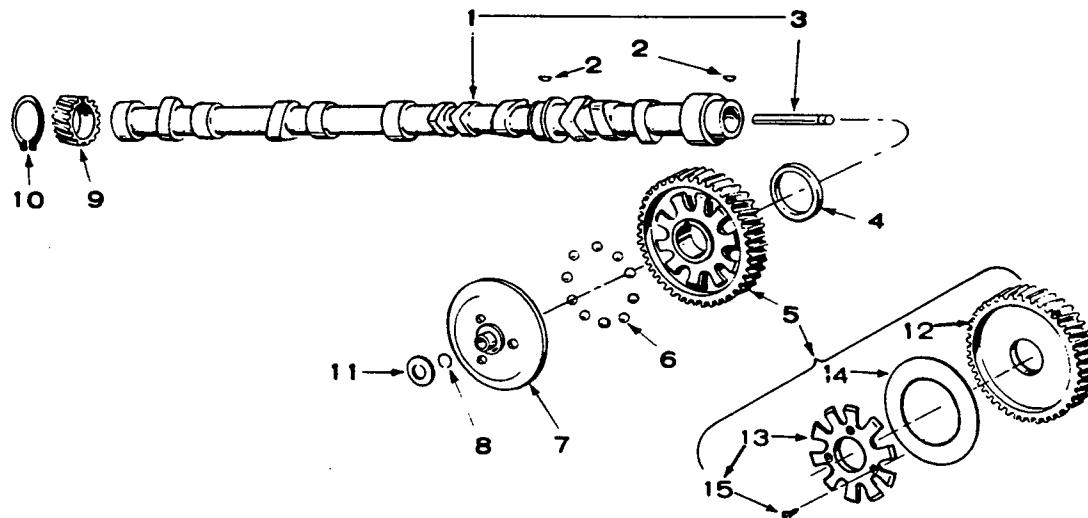
§ - Included in Mounting Hardware Package #402-0327  
Skid Base Models Only (Enough for 4 Assemblies)

## Piston and Rod



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	113-0107	4	Ring Set, Piston Standard	3	112-0086	4	Pin, Piston
	113-0107-10	4	.010" Oversize	4	112-0085	8	Ring, Retaining - Pin
	113-0107-20	4	.020" Oversize	5	114-0163	4	Rod Assembly, Connecting (Forged)
	113-0107-30	4	.030" Oversize	6			Bearing Half, Connecting Rod Standard
2			Piston and Pin (Includes Pin Retaining Rings) Gasoline, Gas-Gasoline, LPG & Standard Natural Gas Sets	114-0164		8	.002" Undersize
	112-0172	4	Standard Size	114-0164-02		8	.010" Undersize
	112-0172-10	4	.010" Oversize	114-0164-10		8	.020" Undersize
	112-0172-20	4	.020" Oversize	114-0164-20		8	.030" Undersize
	112-0172-30	4	.030" Oversize	114-0164-30		8	Bushing, Piston Pin (Half) - Connecting Rod
			Natural Gas Only (High Compression Piston) - Optional	7	114-0170	8	Bolt, Place - Connecting Rod (Special)
	112-0174	4	Standard Size	8	805-0012	8	
	112-0174-10	4	.010" Oversize				
	112-0174-20	4	.020" Oversize				
	112-0174-30	4	.030" Oversize				

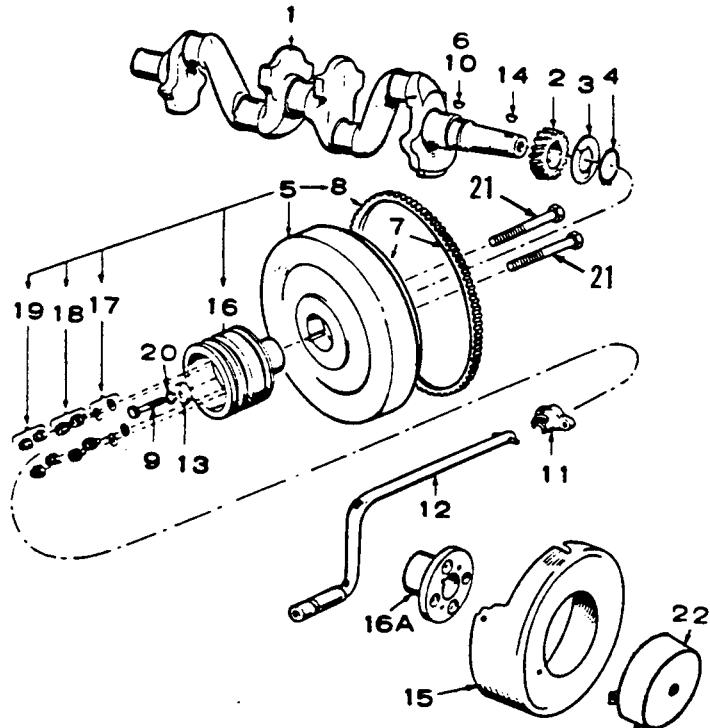
## Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	105-0240	1	Camshaft (Includes Pin) Spec A through N	9	166-0302	1	Gear, Distributor Drive
	105-0275	1	Begin Spec P	10	518-0195	1	Ring, Distributor Drive Gear
2	515-0001	2	Key, Camshaft Gear or Distributor Drive Gear	11	150-0859	1	Washer, Thrust Governor Yoke
3	150-0075	1	Pin, Camshaft Center	12	105-0465	1	*Gear, Camshaft
4	105-0205	1	Washer, Thrust	13	150-1842	1	*Spacer Kit, Governor Ball (Includes Parts Marked ¶)
5	105-0218	1	Gear, Camshaft (Includes Parts Marked *)	14	150-0773	1	*Plate, Governor Ball
6	510-0046	10	Ball, Fly - Governor	15	815-0506	3	*¶Screw, Flathead - Governor Ball Spacer (10-32 x 1/2")
7	150-0857	1	Cup, Governor				
8	150-0078	1	Ring, Center Pin (Snap)				

\* - Parts Included in 105-0218 Camshaft Gear.  
¶ - Parts Included in 150-1842 Spacer Kit.

# Crankshaft and Flywheel

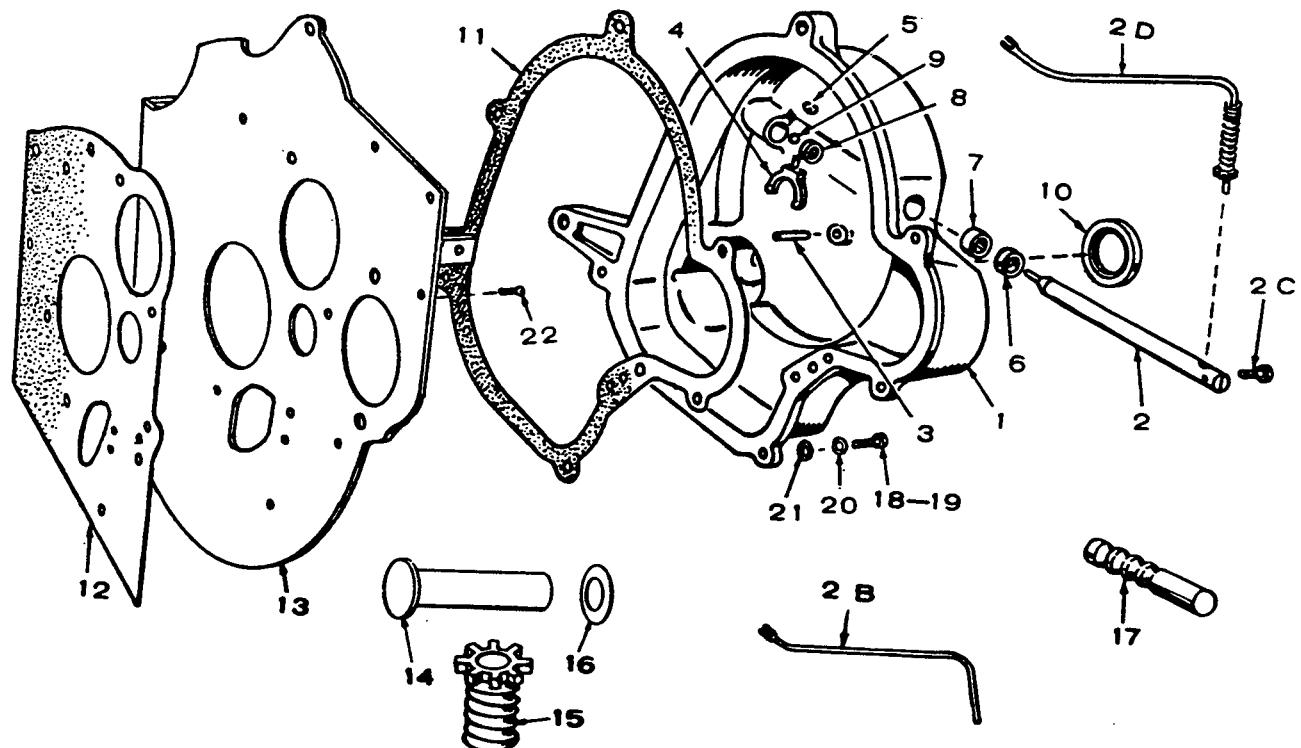


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0460	1	Crankshaft	13	526-0185	1	Washer, Flat - Flywheel
	104-1362	1	Spec A through AB				Mounting (15/32" ID x
			Begin Spec AC (Includes				1-1/2" OD x 3/8" Thk)
			Parts Marked †)	14	515-0153	1	Key, Flywheel to Crankshaft
2	104-0418	1	Gear, Crankshaft	15	104-0510	1	Guard, Flywheel - Key 3,4
3	104-0416	1	Washer, Gear Retainer	16	104-0957	1	Hub, Flywheel - Key 1,2
4	518-0188	1	Ring, Lock	16A	134-1401	1	Hub, Flywheel - Key 3,4
5			Flywheel (Includes Ring Gear and Hub)	17	526-0187	4	Washer, Flat - Hub to Flywheel (Special)
	104-0549	1	Key 1,2	18	104-0543	4	Spacer & Washer Assembly, Hub to Flywheel
	104-0556	1	Key 3,4	19	115-0150	4	Nut, Lock - Hub to Flywheel (Special)
6	515-0006	1	†Key - Begin Spec AC	20	850-0055	1	Washer, Lock - Flywheel
7	104-0547	1	Flywheel (With Ring Gear, Less Hub)	21	801-0054	4	Mounting (7/16")
8	104-0423	1	Gear, Ring	22	104-0594	1	Screw, Cap - Hex Head - Flywheel Hub Mounting (3/8-24 x 2")
9	800-0500	1	Screw, Hex Head Cap - Flywheel (Special)				Cover, Flywheel Guard - Key 1,2
10	515-0001	1	†Key, Crankshaft Gear				
11	104-0429	1	*Crankdog - Key 1,2				
12	192-0004	1	*Crank - Key 1,2				

\* - Used on Early Models Only.

† - Parts Included in 104-1362 Crankshaft Kit.

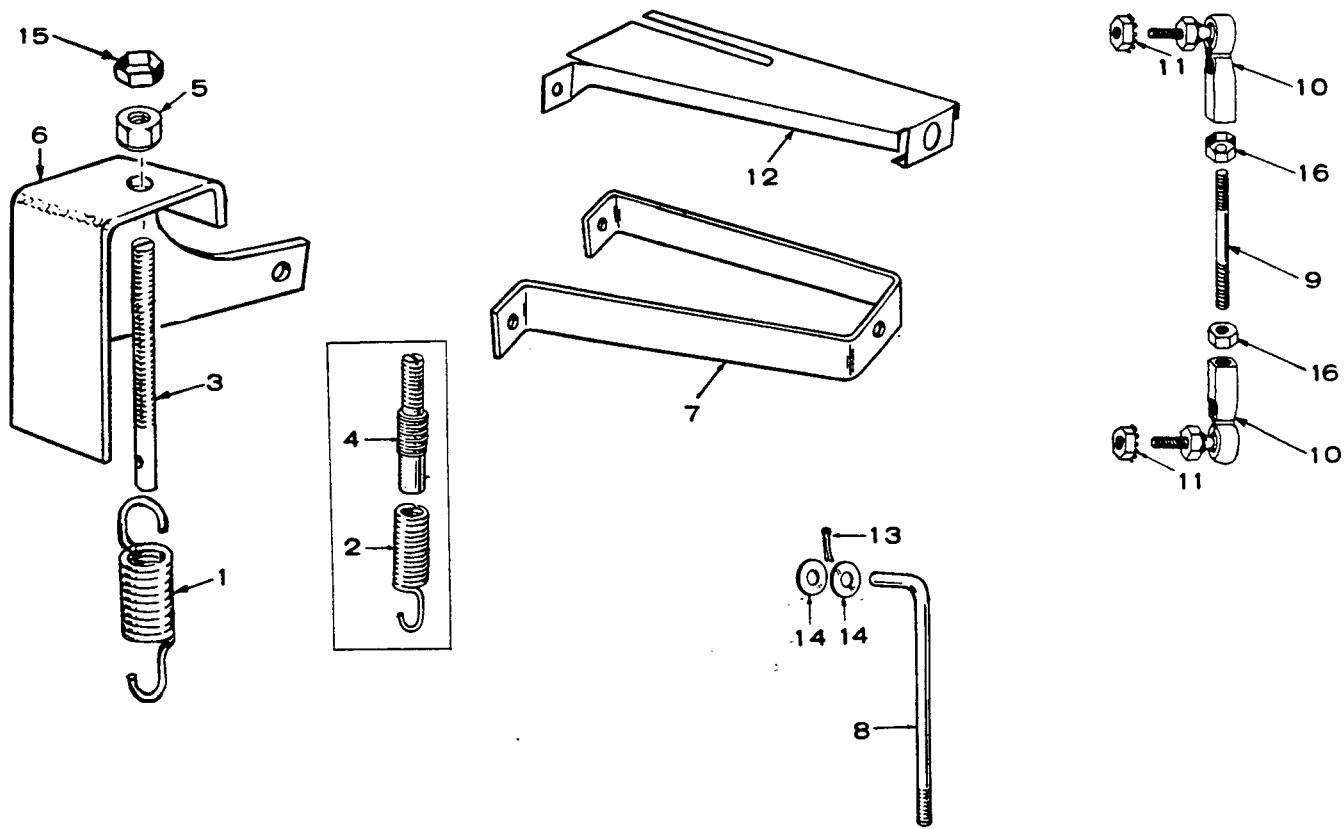
## Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover Assembly, Gear (Includes Parts Marked *)	12	103-0218	1	Gasket, Backplate
	103-0278	1	Key 1,2 - Spec A through Q	13	103-0228	1	Backplate
103-0302	1		Key 1,2 - Begin Spec R	14	150-1154	1	*Pin, Governor Shaft Hub -
103-0277	1		Key 3,4	15	150-1160	1	Key 1,2 - Begin Spec R
2			*Shaft, Governor	16	150-1155	1	*Hub, Governor Shaft - Key 1,2
	150-0901	1	Key 1,2	17	150-0900	1	- Begin Spec R
	150-0838	1	Key 3,4	18	110-0879	4	*Washer, Lock - Governor Shaft
2B	150-0836	1	Arm, Governor - Spec A	19	800-0028	1	- Key 1,2 - Begin Spec R
			through Q	20	850-0045	5	*Arm, Governor Spring Control
2C			*Screw, Hex Head - Machine	21	526-0115	5	- Key 1,2 - Spec A through Q
	815-0176	2	Key 1,2 (#8-32 x 1/2")	22	800-0026	1	Screw, Cap - Hex Head, Gear
	815-0176	1	Key 3,4 (#8-32 x 1/2")				Cover Mounting (Special)
2D			Arm, Governor				Screw, Hex Head - Cap, Gear
	150-1158	1	Key 1,2 - Begin Spec R				Cover Mounting (5/16-18 x 1")
	150-1091	1	Key 3,4 - Begin Spec R				Washer, Lock - Gear Cover
3	516-0111	1	*Pin, Governor Cup Stop				Mounting (5/16")
4	150-0777	1	*Yoke, Governor				Washer, Flat - Gear Cover
5	518-0129	1	*Ring, Yoke Retaining				Mounting (11/32" ID x 11/16"
6	509-0088	1	*Seal, Governor Shaft				00 x 1/16" Thk)
7	510-0048	1	*Bearing, 1/2" Shaft				Screw, Cap - Hex Head
8	510-0082	1	*Bearing, 1/4" Shaft				Backplate Mounting
9	510-0043	1	*Ball, Governor Shaft Thrust				(5/16-18 x 3/4")
10	509-0087	1	*Seal				
11	103-0251	1	Gasket, Gear Cover				

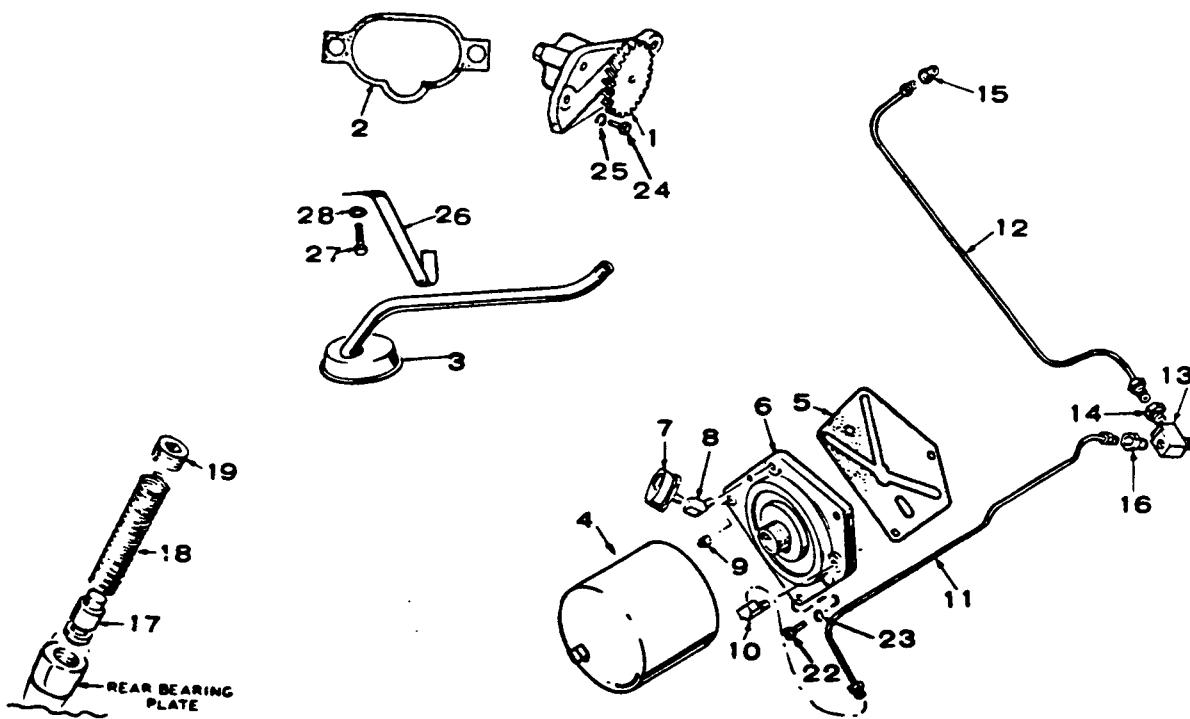
\* - Parts Included in Gear Cover Assembly.

# Governor



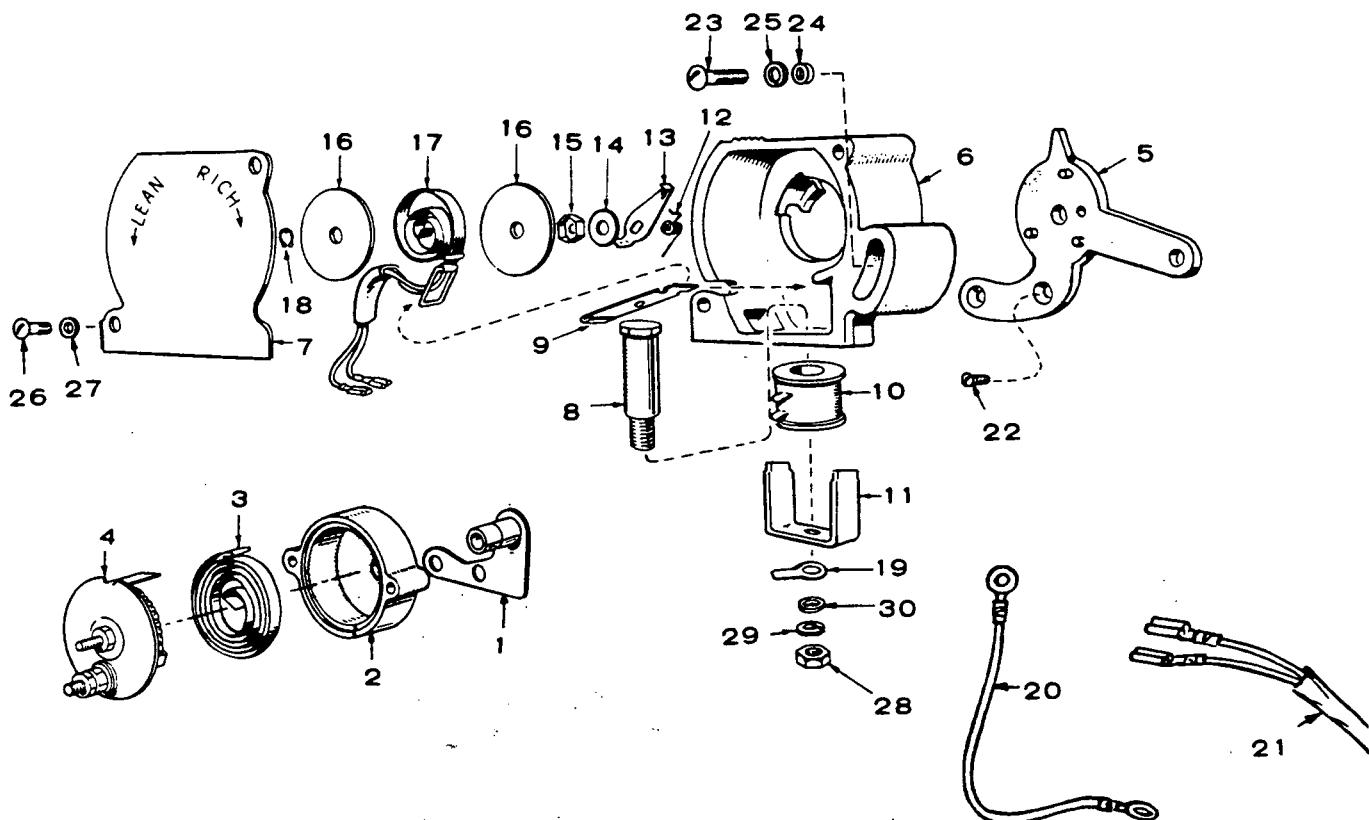
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-1085	1	Spring, Governor - Begin Spec R	9	150-1069	1	Link, Governor - Begin Spec R
2	150-0862	1	Spring, Governor - Spec A through Q	10	150-0974	1	Joint, Ball Spec A through Q
3	150-1082	1	Stud, Governor Adjusting - Begin Spec R	11	150-1081	2	Begin Spec R
4	150-0863	1	Stud, Governor Adjusting - Spec A through Q	12	870-0131	2	Nut, Hex (W ET 10-32) (1 used Spec A through Q)
5	104-0091	1	Nut, Adjusting Spec A through Q (Special)	13	150-0823	1	Cover, Governor Spring Control - Key 3,4 - Spec A through Q
	862-0003	1	Begin Spec R (3/8-16)	14	516-0036	1	Key, Cotter - Spec A through Q
6	150-0902	1	Bracket, Governor Adjustment - Key 1,2 Spec A through Q	15	526-0116	2	Washer, Flat - Link to Carburetor (.200 ID x 3/8 OD x 1/32" Thk) Spec A through Q
	150-1105	1	Begin Spec R				Palnut, Lock Spec A through Q (Special)
7	150-0810	1	Bracket, Governor - Key 3,4 Spec A through Q		870-0130	1	Spec A through Q (Special)
	150-1103	1	Begin Spec R		870-0133	1	Begin Spec R (3/8-16)
8	150-0841	1	Link, Governor - Spec A through Q (No Longer Available)		870-0188	2	Palnut, Lock - Governor Link (1 used Spec A through Q) (10-32)

# Oil System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	120-0547	1	Pump Assembly, Oil	14	502-0097	1	Connector, Inverted Male - Rear Cylinder Head, Oil Line to Tee
2	120-0580	1	Gasket Kit, Oil Pump	15			Connector, Inverted Male - Rear Cylinder Head to Oil Line
3	120-0601	1	Cup Assembly, Oil Pump Intake Filter, Oil	502-0097	1	Spec A through N	Begin Spec P (Restricted)
4	122-0185	1	4-3/8" Long	502-0274	1	Connector, Inverted Male - Adapter Oil Line to Tee	Gasoline Sets - Spec A through N
	122-0193	1	5-3/4" Long	502-0030	1	Gasoline Sets - Begin Spec P	Gas & Gas-Gasoline Sets
5	122-0188	1	Gasket, Adapter	502-0097	1	Gasoline Sets - Begin Spec P	through N
6	122-0182	1	Adapter, Oil Filter	502-0097	1	Screw, Cap - Hex Head - Oil Filter Adapter Mounting (5/16-18 x 1")	
7	193-0108	1	Sender, Oil Gauge Pressure Spec A through AA	17	120-0539	1	Washer, Lock - Oil Filter Adapter Mounting (5/16)
	193-0244	1	Spec AB	18	120-0555	1	Screw, Cap - Hex Head - Oil Pump Mounting (5/16-18 x 1-1/4")
	193-0271	1	Begin Spec AC	19	505-0274	1	Washer, Lock - Oil Pump Mounting (5/16)
8	502-0094	1	Elbow, Oil Gauge Sender	20	800-0028	3	Bracket, Oil Pump Intake Cup
9	505-0057	1	Plug (1/8") - Spec A and B	21	850-0045	1	Screw, Cap - Hex Head (5/16-18 x 1/2" Lg)
10	502-0019	1	Elbow, Oil Line to Filter Adapter	22	800-0030	2	Washer, Lock (5/16")
	502-0037	1	Gasoline Sets, Spec A through N	23	850-0045	2	
	502-0037	1	Gasoline Sets, Begin Spec P	24	850-0045	2	
11	120-0562	1	Gasoline Sets, Spec A through N	25	120-0602	1	
	120-0641	1	Gasoline Sets, Begin Spec P	26	800-0025	1	
	120-0606	1	Gas and Gas-Gasoline Sets, Spec A Only	27	850-0045	1	
	120-0641	1	Gas and Gas-Gasoline Sets, Begin Spec B	28	850-0045	1	
12	120-0575	1	Line, Tee to Rear Cylinder Head				
	120-0635	1	Spec A through N				
13	502-0242	1	Begin Spec P				
	502-0058	1	Tee, Restricted Front Cylinder Head				
			With Restriction Plug				
			Without Restriction Plug				

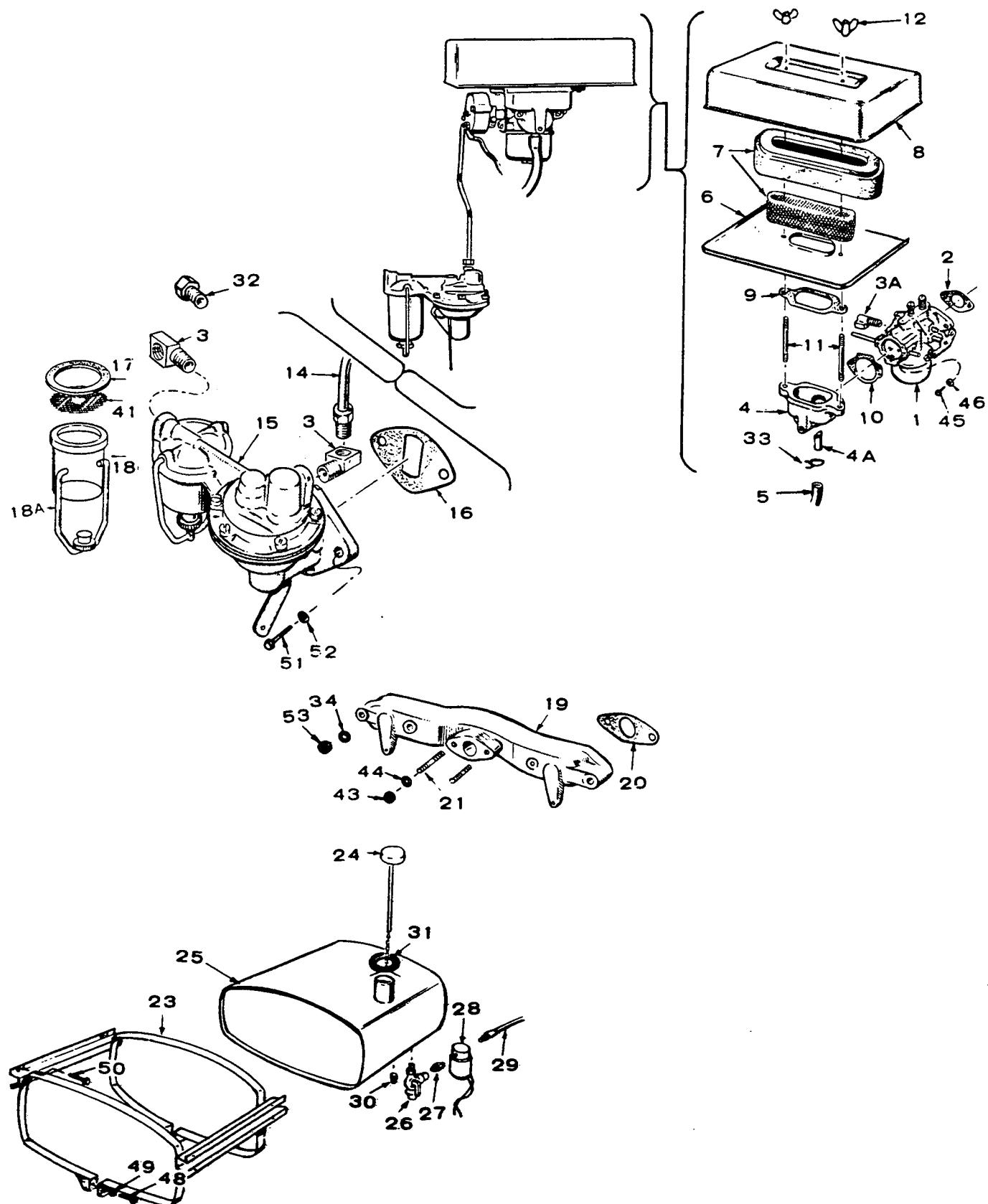
# Electric Choke and Thermo-Magnetic Choke



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1 *			Adapter - Spec A and B	19	332-0876	1	Terminal, Ground - Begin Spec C
2 153-0324		1	Bracket - Spec A and B	20	336-1550	1	Lead, Choke Ground - Begin Spec C
3 *			Element - Spec A and B	20	336-1549	1	Lead, Solenoid to Ground - Begin Spec C
4 153-0325		1	Cover Assembly, Choke (12 Volt) Spec A and B	21	338-0332	1	Harness, Choke - Begin Spec C
5 153-0385		1	Plate, Mounting - Begin Spec C	22	815-0161	2	Screw, Flat Head - Machine Plate Mounting (10-32 x 3/8")
6 153-0386		1	Body - Begin Spec C	23	813-0107	1	Screw, Round Head - Machine Locking - Choke Adjustment (10-32 x 1-1/4")
7 153-0389		1	Cover - Begin Spec C	24	526-0008	1	Washer, Flat (13/64" ID x 7/16 OD x 1/32" Thk)
8 153-0391		1	Core, Solenoid - Begin Spec C	25	850-0030	1	Washer, Lock (#10)
9 153-0395		1	Armature - Begin Spec C	26	812-0076	2	Screw, Round Head - Machine Cover Mounting (#8-32 x 5/16")
10 307-1203		1	Coil, Solenoid - Begin Spec C	27	854-0007	2	Washer, Lock (#8)
11 153-0392		1	Frame, Solenoid - Begin Spec C	28	862-0015	1	Nut, Hex (5/16-18)
12			Spring	29	854-0017	1	Washer, Lock (5/16")
13	153-0387	1	Spec C through R	30	526-0022	1	Washer, Flat (21/64" ID x 9/16 OD x 1/16" Thk)
	153-0425	1	Begin Spec S		153-0430	1	Kit, Choke (Thermo Magnetic), For Plants Originally equipped with this type Choke
13	153-0390	1	Lever, Thermostat - Begin Spec C				
14	526-0018	1	Washer, Flat - Begin Spec C (17/64 ID x 5/8 OD x 1/16" Thk)				
15	870-0134	1	Palnut (1/4-20) Begin Spec C				
16	153-0399	2	Insulator - Begin Spec C				
17	153-0400	1	Heater Assembly Spec C through R				
	153-0422	1	Begin Spec S				
18	518-0129	1	Ring, Retaining - Begin Spec C				

\* - No Longer Available - Order Choke Kit #153-0378.

## Fuel System

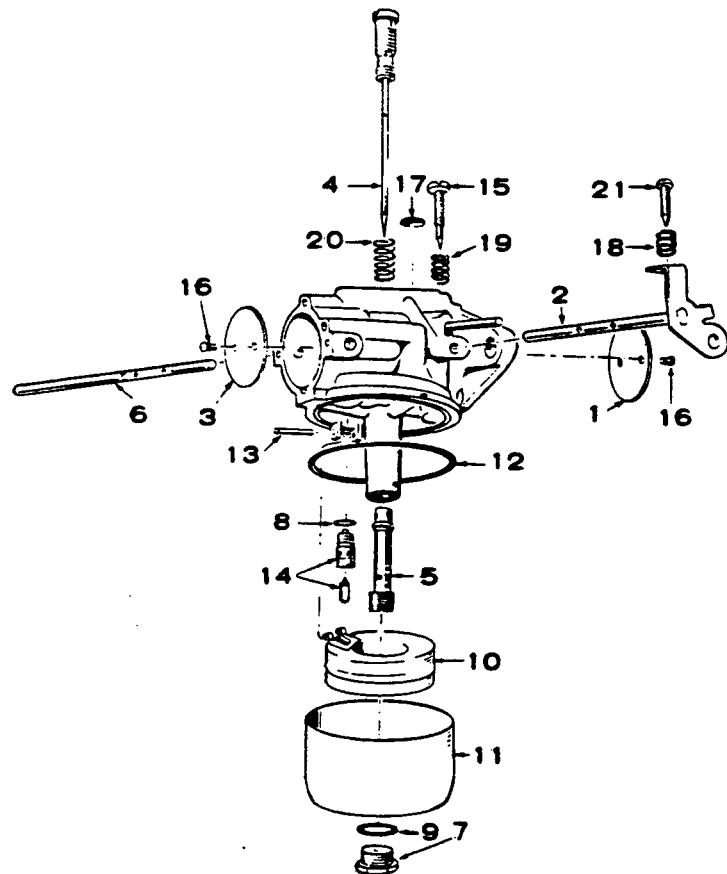


## Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			*Carburetor, Gasoline (Includes Mounting Gasket)	25	159-0639	1	Tank, Fuel - Housed Sets - Key 1,2
	141-0758	1	(Includes Parts Marked **) Spec A Through Q (For Carburetor Breakdown See 141-0759)	26	504-0004	1	Valve, Shut-off - Housed Sets - Key 1,2
	141-0876	1	Begin Spec R (Includes Parts Marked †) (For Carburetor Breakdown See 141-0685)	27	502-0082	1	Nipple, Hex - Brass Pipe - Key 1,2 - Housed Sets
2	141-0281	1	Gasket, Carburetor	28	307-0565	1	Valve, Fuel Solenoid (12 Volt) Housed Sets - Key 1,2
3	502-0002	2	Elbow, Fuel Pump Inlet and Outlet	29	501-0015	1	Line, (16") - Housed Sets - Key 1,2
3A	502-0065	1	Elbow, Carburetor Inlet Adapter, Air Cleaner (Includes Tube)	30	505-0057	1	Plug (1/8") - Shut Off Valve - Housed Sets - Key 1,2
4	140-0647	1	Spec A through Q	31	159-0751	1	Gasket, Tank Filler Neck - Key 1,2 - Housed Sets
	140-0933	1	** Begin Spec R	32	502-0003	1	Connector, Pump Inlet - Housed Sets with Mounted Tank - Key 1,2 - Housed Sets
4A	123-0732	1	Tube, Nylon	33	503-0171	2	Clamp, Breather Hose
5	503-0416	1	Hose, Breather to Air Cleaner Adapter (7/16 ID x 12")	34	526-0065	4	Washer, Flat (Copper) Intake Manifold Mounting (21/64" ID x 9/16" OD x 1/16" Thk)
6	140-0595	1	Pan, Air Cleaner	41	149-0463	1	Screen, Fuel Pump
7	140-0636	1	Element & Retainer, Air Cleaner	43	868-0002	2	Nut, Hex - Carburetor Mounting (5/16-24)
8	140-0594	1	Cover, Air Cleaner	44	854-0017	2	Washer, Lock (IT) - Carburetor Mounting (5/16")
9	140-0584	1	**Gasket, Air Cleaner	45	813-0108	2	Screw, Round Head - Machine Air Cleaner Adapter Mounting (10-32 x 1-1/2")
10	140-0585	1	Gasket, Adapter to Carburetor Spec A through Q	46	850-0030	2	Washer, Lock - Air Cleaner Adapter Mounting (#10)
	140-0921	1	** Begin Spec R	48	812-0168	2	Screw, Round Head - Machine - Fuel Tank Mounting Bracket (1/4-20 x 3-1/2")
11	520-0621	2	Stud, Air Cleaner	49	850-0040	2	Washer, Lock - Fuel Tank Mounting Bracket (1/4")
12	865-0020	2	Nut, Wing - Air Cleaner (1/4-20)	50	821-0010	8	Screw, Hex Washer Head - Self Locking - Fuel Tank Mounting (1/4-20 x 1/2")
14			Line, Pump to Carburetor Spec A and B	51	800-0027	2	Screw, Cap - Hex Head - Fuel Pump Mounting (5/16-18 x 7/8")
	159-0744	1	Spec C through Q	52	149-1307	2	Washer, Copper - Fuel Pump Mounting
	149-1016	1	** Begin Spec R	53	110-0445	4	Nut, Hex - Intake Man. Mounting (spec'd)
15	149-1787	1	Pump, Fuel (Includes Mounting Gasket) (Includes Parts Marked §)	149-1048		1	Repair Kit, Fuel Pump
16	149-0792	1	§ Gasket, Fuel Pump Mounting				
17	149-0517	1	Gasket, Fuel Pump Bowl				
18			#Bowl, Fuel Pump (Glass)				
	149-0116	1	Spec A through T (2-3/8")				
	149-1168	1	Begin Spec AA (1-5/8")				
18A			#Bail, Fuel Pump Bowl Retaining Spec A through T (2-3/8")				
	149-1006	1	Begin Spec AA (1-5/8")				
	149-1169	1	Manifold, Intake				
19	154-0749	1	**† Gasket, Intake Manifold				* - See Separate Group for Components and Service Kits.
20	154-0733	2	Stud, Carburetor Mounting				# - Measure for Correct Size When Ordering.
21	520-0526	2	Band, Tank - Housed Sets - Key 1,2				§ - Parts Included in 149-1787 Fuel Pump.
23	159-0640	1	Cap Assembly - Housed Sets - Key 1,2				† - Parts Included in 141-0876 Carburetor Kit.
24	159-0642	1					** - Parts Included in 141-0758 Carburetor Kit.

\* - See Separate Group for Components and Service Kits.  
# - Measure for Correct Size When Ordering.  
§ - Parts Included in 149-1787 Fuel Pump.  
† - Parts Included in 141-0876 Carburetor Kit.  
\*\* - Parts Included in 141-0758 Carburetor Kit.

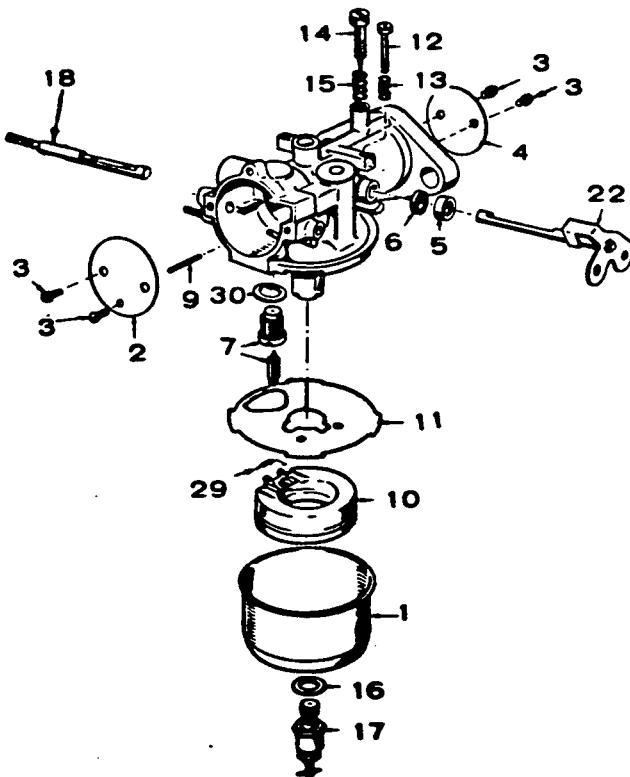
**Carburetor Parts (Gasoline)**  
**Spec A through Q**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	141-0759	1	Carburetor Gasoline	7	143-0208	1	Screw and Gasket, Bowl
	143-0241	1	Repair Kit, Carburetor (Includes Parts Marked **)	8	143-0015	1	*Gasket, Fuel Inlet Valve
	143-0201	1	** Gasket Kit, Carburetor (Includes Parts Marked *)	9	143-0209	1	*Gasket
	141-0281	1	Gasket, Carburetor Flange (Illustrated in Fuel System Group)	10	143-0105	1	Float and Lever
1	143-0202	1	Valve, Throttle	11	143-0210	1	Bowl
2	143-0234	1	Shaft and Lever, Throttle	12	143-0077	1	*Gasket, Bowl Ring
3	143-0204	1	Valve, Choke	13	141-0703	1	**Pin, Float
4	143-0235	1	**Needle, Idle Jet and High Speed Adjustment	14	143-0341	1	**Valve, Fuel Inlet
5	143-0237	1	**Nozzle	15	143-0213	1	Screw, Idle Adjustment
6			Shaft, Choke	16	812-0014	4	**Screw, Round Head - Machine (#3-48 x 3/16)
	143-0207	1	Spec A and B (No Longer Available)	17	143-0110	1	Plug, Expansion
	143-0315	1	Spec C through Q	18	143-0214	1	Spring, Throttle Adjustment
				19	143-0112	1	Spring, Idle Adjustment
				20	143-0114	1	Spring, High Speed Adjustment
				21	143-0215	1	Screw, Throttle Adjustment

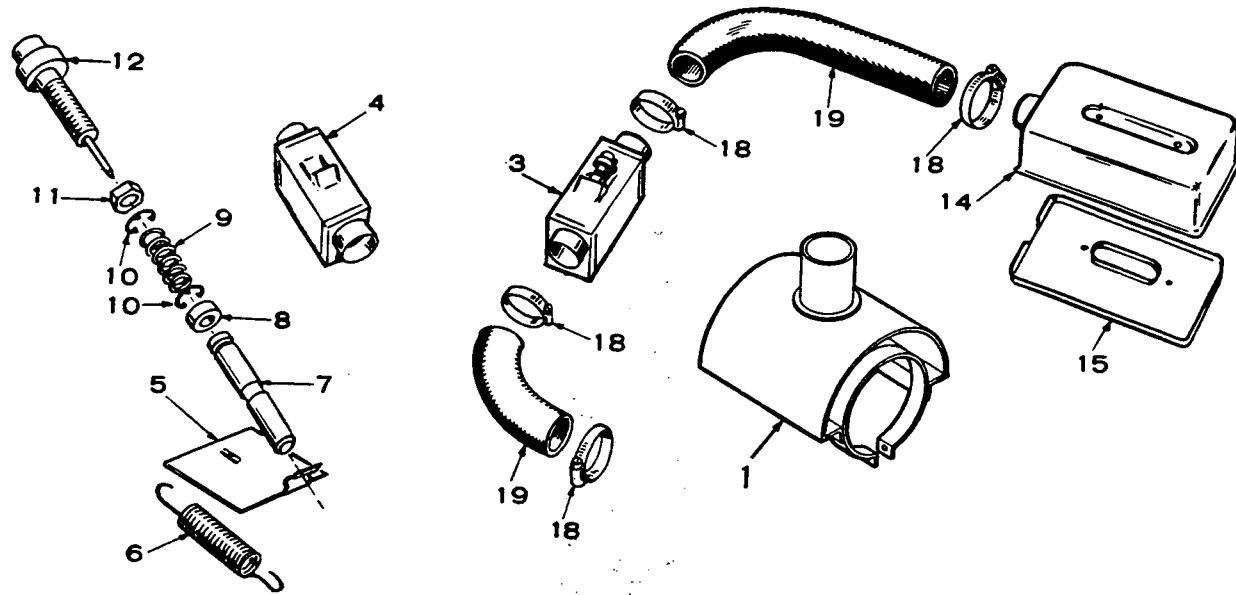
\* - Parts Included in Gasket Kit 143-0201.  
\*\*- Parts Included in Repair Kit 143-0241.

**Carburetor Parts (Gasoline)**  
**Begin Spec R**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	141-0685	1	Carburetor, Gasoline		11	141-0701	1 *+Gasket, Bowl to body
	141-0747	1	Repair Kit (Includes Parts Marked *)		12	141-0700	1 Screw, Throttle Stop
	141-0748	1	Gasket Kit (Includes Parts Marked +)		13	141-0711	1 Spring, Throttle Stop
	141-0281	1	*+Gasket, Carburetor Flange		14	141-0713	1 Needle, Idle Adjusting
1	141-0708	1	Bowl, Fuel		15	141-0710	1 Spring, Idle Needle
2	141-0860	1	Plate, Choke		16	141-0077	1 *+Washer, Main Jet Assembly
3	141-0698	4	Screw and Washer, Choke and Throttle Plate Mounting		17	141-0712	1 Jet Assembly, Main (Adjustable)
4	141-0793	1	Plate, Throttle		18	141-0679	1 Shaft, Choke - Electric
5	141-0705	1	*Retainer, Seal		22	141-0735	1 Shaft and Lever Throttle
6	141-0661	1	*+Seal, Rubber		29	141-0799	1 *Spring, Float
7	141-0798	1	*Valve Seat Assembly, Fuel		30	141-0811	1 +Washer, Fuel Valve Seat
9	141-0703	1	*Shaft, Float				* - Parts Included in Repair Kit 141-0747.
10	141-0702	1	Float Assembly				+ - Parts Included in Gasket Kit 141-0748.

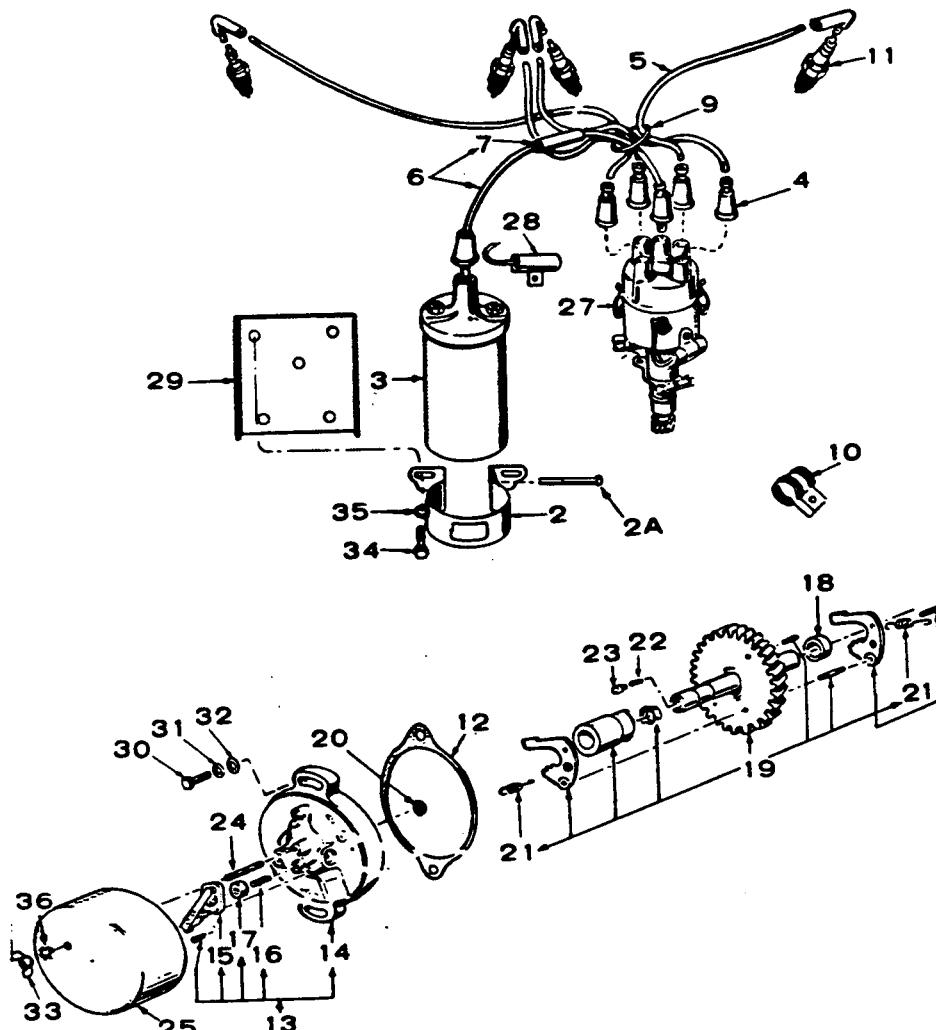
# Carburetor Air Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
140-0895	.1	Kit, Air Heater		11	870-0195	1	*Nut, Locking - Vernatherm
1 133-0183	1	Duct, Air Heater		12	309-0181	1	*Vernatherm, Temperature Control
3 140-0904	1	Control Assembly, Temperature (Includes Parts Marked *)		14	140-0790	1	Cover, Air Cleaner
4 140-0903	1	*Housing, Temperature Control		15	140-0791	1	Pan, Air Cleaner
5 140-0782	1	*Shutter, Temperature Control		18	503-0004	4	Clamp, Hose
6 140-0786	1	*Spring, Shutter Control		19	503-0507	2	Hose (Cut to Length) 1-3/4" - Flexible
7 140-0784	1	*Plunger, Temperature Control					
8 140-0808	1	*Spacer, Vernatherm					
9 140-0787	1	*Spring, Vernatherm					
10 518-0205	2	*Ring, Retaining					

\* - Parts Included in 140-0904 Air Heater Control Assembly.

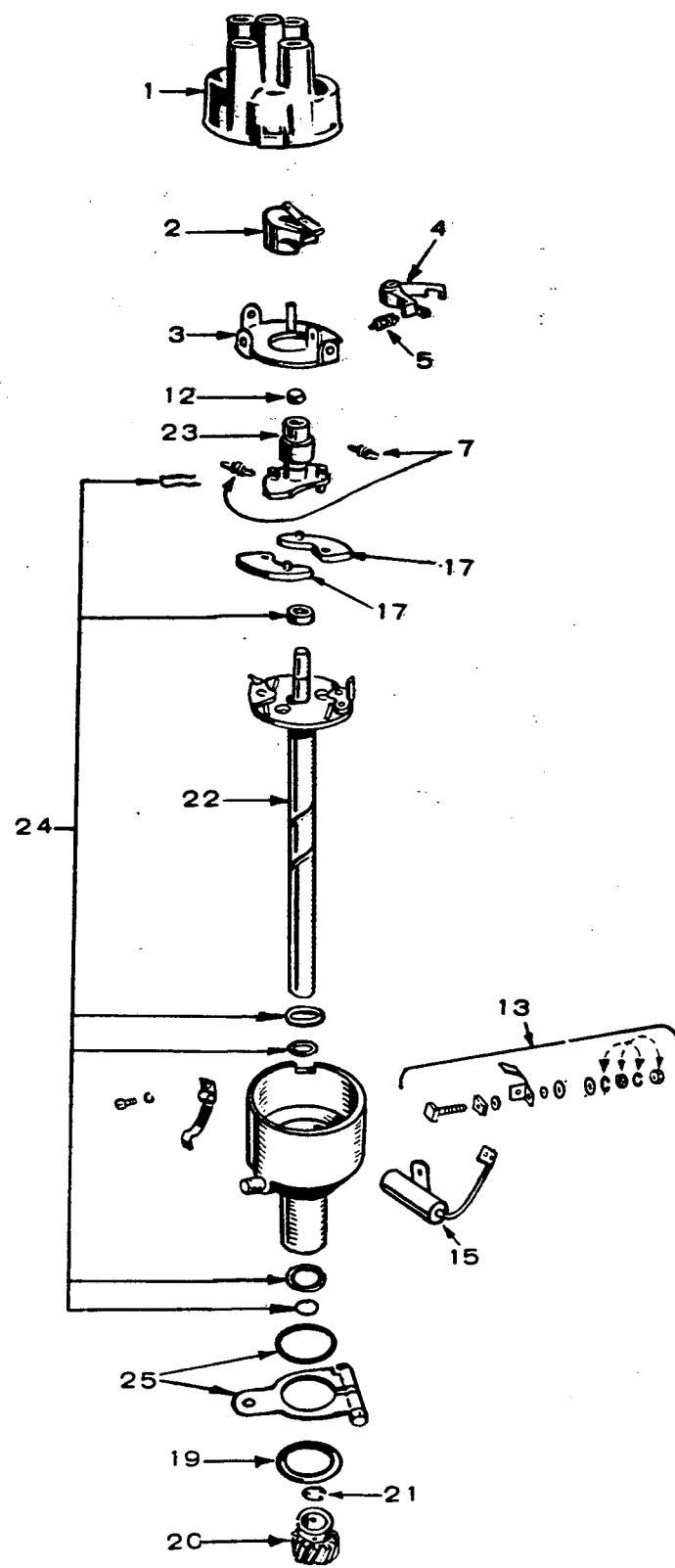
### Ignition System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	166-0279	1	Clamp, Coil	21	160-0711	2	Spring, Timing Weight
2A	166-0286	1	Screw, Coil Clamp	22	160-0773	1	Spring, Thrust Plunger
3	166-0278	1	Coil, Ignition	23	160-0774	1	Plunger, Thrust
4	160-0558	6	Nipple, Ignition Cables Kit, Spark Plug Cable (Includes Suppressor)	24	520-0347	1	Stud, Plate Cover
5			Lead Assembly (Resistor Type 12")	25	160-0719	1	Cover, Breaker Plate
	167-1602	1	Lead Assembly (Resistor Type 24")	27	166-0309	1	*Distributor (Includes Gear)
	167-1602	1		28	312-0058	1	Condenser, Ignition Coil
6	167-1618	1	Cable, Coil to Distributor	29	160-0886	1	Bracket, Coil Mounting
7	314-0006	1	Suppressor, Ignition Coil	30	800-0052	2	Screw, Cap - Hex Head - Ignition Breaker Plate Mounting (3/8-16 x 1-1/2")
9	509-0018	1	"O" Ring (Cables Tie)	31	850-0050	2	Washer, Lock - Ignition Breaker Plate Mounting (3/8")
10	332-0052	1	Clip, Spark Plug Cables	32	526-0026	2	Washer, Flat - Ignition Breaker Plate Mounting
11			Plug, Spark Resistor Type				(13/32" ID x 3/4" OD x 1/16" Thk)
	167-0237	4	Non-Resistor Type				Nut, Wing - Timing Control Cover Mounting (10-32)
	167-0241	4					Screw, Cap - Hex Head Ignition Coil Mounting (5/16-18 x 5/8")
12	160-0721	1	Gasket, Breather Plate	33	865-0011	1	Washer, Lock - Ignition Coil Mounting (5/16")
13	191-0395	1	Plate Assembly, Start- Disconnect	34	800-0025	2	Washer, External Tooth (#10)
14	160-0891	1	Plate Only, Start-Disconnect	35	850-0045	3	
15	309-0134	1	Switch, Assembly - Start- Disconnect	36	853-0008	1	
16	309-0140	1	Plunger, Start-Disconnect				
17	160-0382	1	Diaphragm, Start-Disconnect				
18	160-0720	1	Spacer, Timing Control				
19	160-0707	1	Gear & Shaft Assembly, Timing Disc, Thrust				
20	160-0806	1					

\* - See Separate Group for Components.

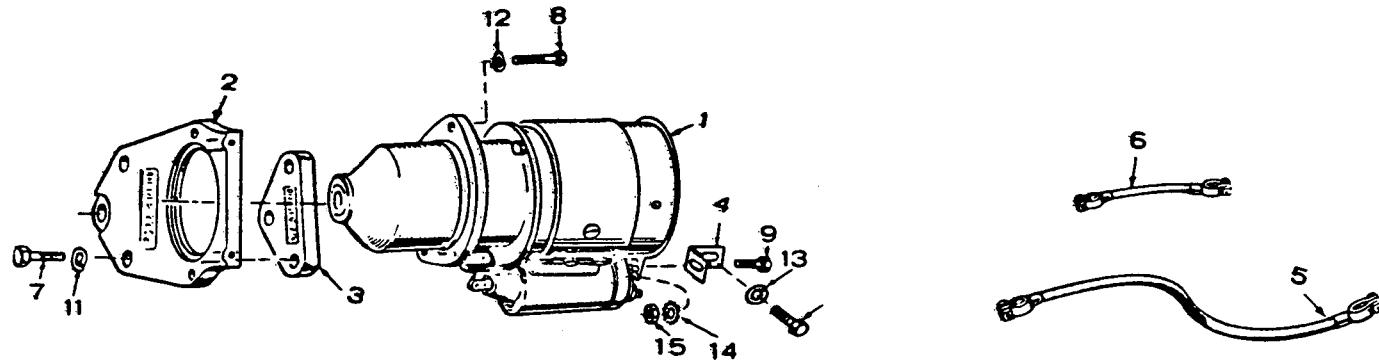
## DISTRIBUTOR



## Distributor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	166-0309	1	Distributor Assembly, Includes Gear	15	166-0310	1	Condenser
1	166-0235	1	Cap	17	166-0609	1	Weight Set, Governor
2	166-0234	1	Rotor	19	509-0096	1	Seal, Base
3	166-0297	1	Plate, Breaker	20	166-0303	1	Gear, Drive
4	166-0245	1	Point Set, Breaker	21	518-0216	1	Ring, Retaining
5	166-0061	1	Nut, Lock - Contact Screw	22	166-0610	1	Shaft, Drive
7	166-0606	1	Spring Set, Governor Weight	23	166-0611	1	Cam and Stop Plate
12	166-0607	1	Wick Package	24	166-0612	1	Bearing and Parts Package
13	166-0608	1	Terminal Stud and Parts Package	25	166-0308	1	Bracket, Ring

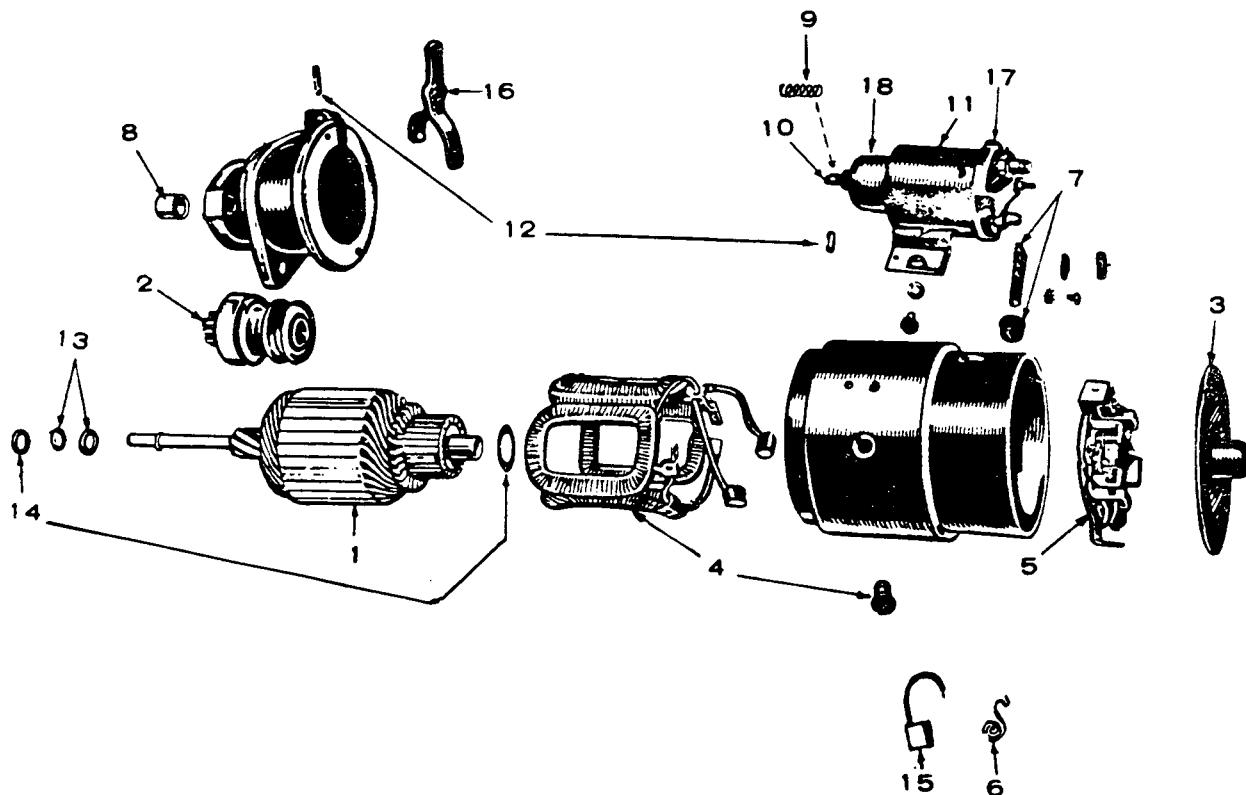
# Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-0324	1	Motor, Starter	10	800-0052	2	Screw, Cap - Hex Head Support Mounting (3/8-16 x 1-1/2")
2	191-0512	1	Flange, Starter Mounting	11	850-0050	2	Washer, Lock - Starter to Flange Mounting (3/8)
3	191-0311	1	Spacer, Starter Flange	12	850-0050	3	Washer, Lock - Starter to Flange Mounting (3/8)
4	191-0365	1	Bracket, Starter Support	13	850-0050	2	Washer, Lock - Support Mounting (3/8)
5	416-0021	2	Cable, Battery	14	856-0010	1	Washer, Lock (EIT) - Bracket to Starter Mounting (3/8)
6	416-0133	1	Cable, Battery Jumper	15	864-0003	1	Nut, Hex - Support Bracket Mounting (3/8-16)
7	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")				
8	800-0054	3	Screw, Cap - Hex Head Starter to Flange Mounting (3/8-16 x 2")				
9	800-0046	1	Screw, Cap - Hex Head Starter Flange Mounting (3/8-16 x 1/2")				

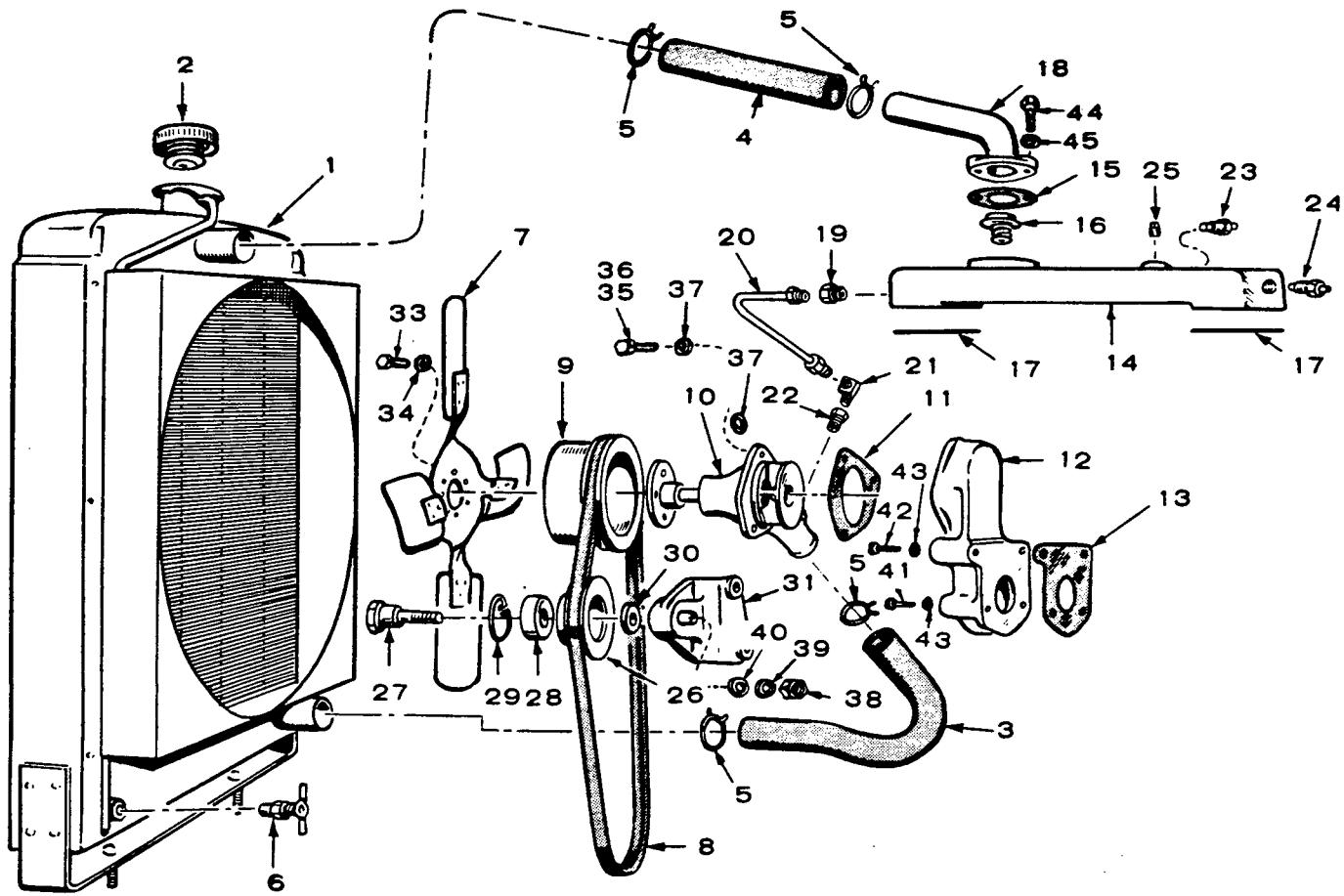
f - See Separate Group for Components.

**Starter Parts**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
191-0324	1	1	Starter - 12 Volt	11	191-0433	1	Switch, Solenoid
1 191-0712	1	1	Armature	12	191-1029	1	Yoke Parts Package
2 191-0432	1	1	Clutch	13	191-1030	1	Stop and Lock Ring Package, Pinion
3 191-1023	1	1	Head Assembly, Commutator	14	191-1031	1	Thrust Washer Package, Armature (Use as Required)
4 191-1024	1	1	Coil Package, Field	15	191-0434	1	Brush Set, Service
5 191-1025	1	1	Plate Assembly, Brush	16	191-1032	1	Yoke
6 191-1020	1	1	Spring Set, Brush (Set of 4)	17	191-0468	1	Cover, Solenoid
7 191-1263	1	1	Connector Package	18	191-1134	1	Boot, Rubber - Solenoid (Part of Moving Core Assembly)
8 191-0497	1	1	Bearing (Bronze), Drive End				
9 191-1027	1	1	Spring, Plunger				
10 191-1028	1	1	Core Assembly, Moving				

Cooling System - Key 1,2



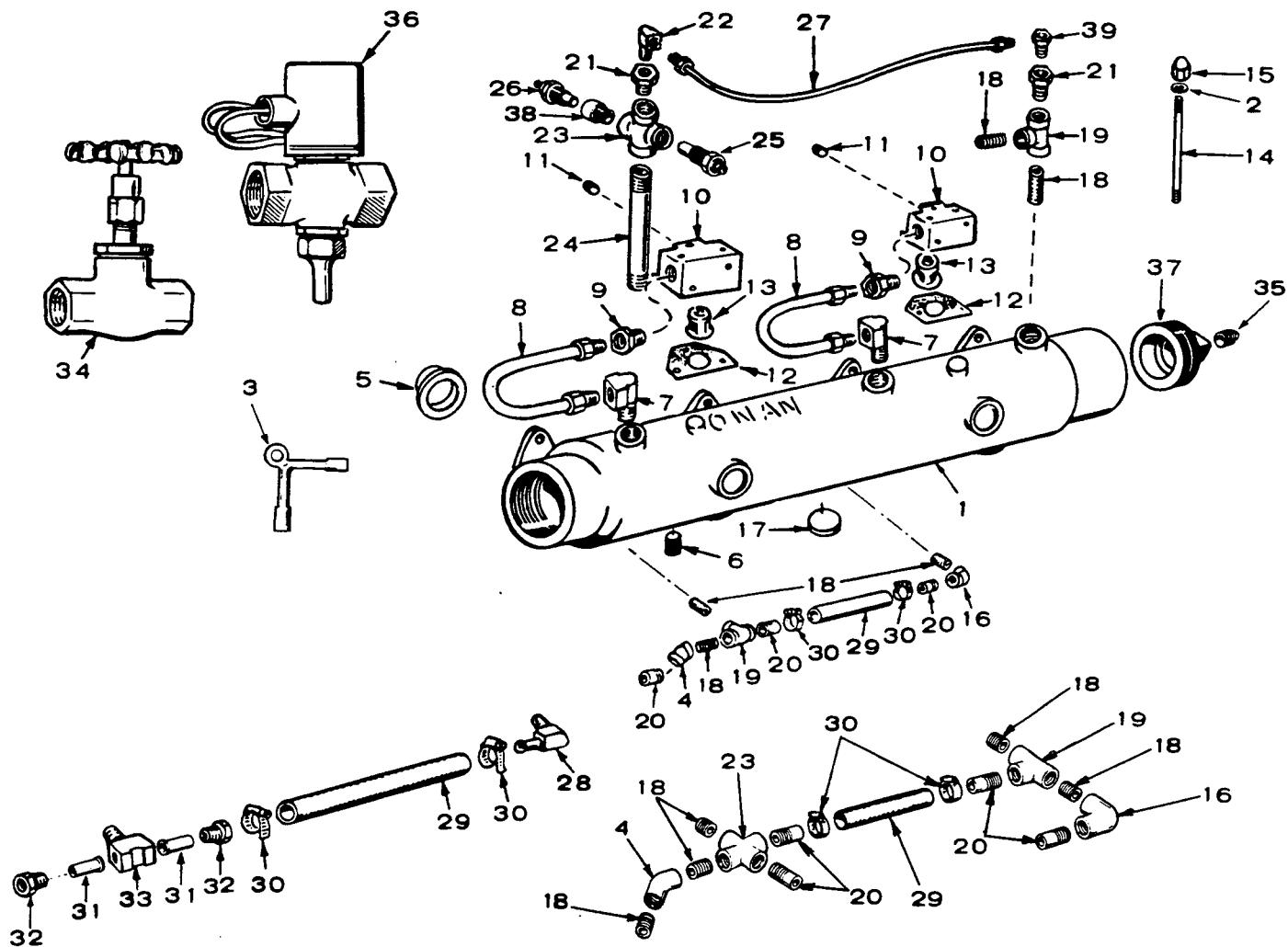
**Cooling System - Key 1,2**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-0569	1	Radiator	28	510-0025	1	Bearing, Ball
2	130-0553	1	Cap, Radiator	29	518-0210	1	Ring, Snap
3	503-0204	1	Hose, Radiator Outlet Curved (1-1/2 ID x 9-7/16")	30	130-0560	1	Spacer, Idler Pulley
4	503-0400	1	Hose, Radiator Inlet (1-1/2 ID x 16-7/8")	31	132-0105	1	Bracket, Idler Pulley Spec A through D (Replacement Kit) (Includes Parts Marked t)
5	503-0129	4	Clamp, Radiator Hose				t Begin Spec E
6	504-0003	1	Valve, Radiator Drain	130-0680		1	Screw, Cap - Hex Head
7	130-0343	1	Fan, Radiator - 4 Blade	33	800-0027	4	Fan to Pulley (5/16-18 x 7/8")
8	511-0066	1	Belt, Fan	34	850-0045	4	Washer, Lock - Fan to Pulley (5/16")
9	512-0039	1	Pulley, Water Pump	35	800-0031	1	Screw, Cap - Hex Head - Water Pump to Housing (5/16-18 x 1-1/2")
10			Kit, Pump - Water (Includes Mounting Gasket) Spec A through D (Includes Parts Marked t)	36	800-0027	2	Screw, Cap - Hex Head - Water Pump to Housing (5/16-18 x 7/8")
	132-0323	1		37	526-0065	3	Washer, Flat - Water Pump to Housing (21/64" ID x 9/16" OD x 1/16" Thk)
11	132-0072	1	t*Gasket, Water Pump Mounting	38	110-0707	1	Nut, Hex - Idler Pulley Mounting (Special)
12			Housing, Water Pump Spec A through D (Order 132-0105 Water Pump Kit)	39	850-0060	1	Washer, Lock - Idler Pulley Mounting (1/2")
	131-0186	1	t Begin Spec E	40	526-0035	1	Washer, Flat - Idler Pulley Mounting (17/32" ID x 7/8" OD x 1/8" Thk)
13	131-0139	1	tGasket, Water Pump Housing to Block	41	800-0064	2	tScrew, Cap - Hex Head Water Pump Housing Mounting (3/8-16 x 4-1/2")
14	131-0137	1	Housing, Water Outlet - Cylinder Head	42	800-0057	2	Screw, Cap - Hex Head Water Pump Housing Mounting (3/8-16 x 2-3/4")
15	131-0140	1	Gasket, Water Outlet Elbow	43	526-0066	4	tWasher, Flat - Water Pump Housing Mounting (25/64" ID x 9/16" OD x 1/16" Thk)
16	309-0054	1	Thermostat	44	800-0030	2	Screw, Cap - Hex Head Thermostat Cover Mounting (5/16-18 x 1-1/4")
17	309-0145	2	Gasket, Water Outlet Housing to Heads	45	526-0065	2	Washer, Flat - Thermostat Cover Mounting (21/64" ID x 9/16" OD x 1/16" Thk)
18	131-0138	1	Elbow, Water Outlet				tScrew, Cap - Hex Head Water Pump Housing Mounting (3/8-16 x 2-3/4")
19	502-0036	1	Connector, Inverted Male - By-Pass Line to Water Outlet				
			Housing				
20	130-0592	1	Line, Water By-Pass				
21	502-0043	1	Elbow, Inverted Male - By-Pass Line to Pump				
22	505-0019	1	Bushing, Reducer (1/2" x 3/8") - By-Pass Line to Pump				
23	309-0179	1	Switch, High Temperature Cut-Off				
24			Sender, Water Temperature Spec A through AA				
	193-0104	1	Begin Spec AB				
25	193-0246	1					
	505-0110	1	Plug (3/8") - Water Outlet Housing (Note: Early Models used 1/4" Plug - P/N 505-0054)	800-0058		2	tScrew, Cap - Hex Head (3/8-16 x 3") (Mounting Screw - Not Illustrated)
26	130-0557	1	Pulley, Idler				
27	130-0556	1	Shaft, Idler Pulley				

\* - Parts Included in 132-0250 Water Pump Kit.

t - Parts Included in 132-0323 Water Pump Kit.

**Exhaust Cooling System - Key 3,4**

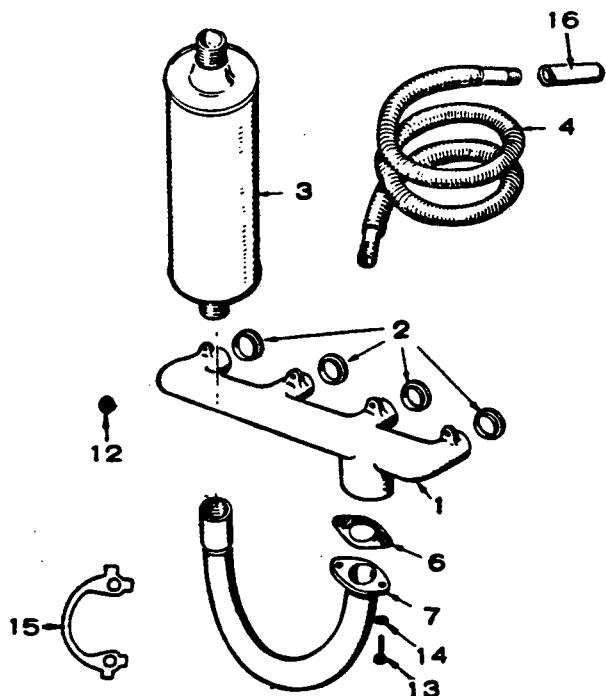


### Exhaust Cooling System - Key 3,4

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2124	1	Manifold Assembly, Exhaust - Water Cooled (Includes Parts Marked *)	21			Bushing, Reduce - Pipe - By-Pass Line
2	526-0022	4	Washer, Flat (21/64" ID x 9/16" OD x 1/16" Thk)	505-0016	2		Sets Without Heat Exchanger
3	504-0020	1	Key, Valve (Used on Early Style Valve) (No Longer Available)	505-0016	1		Sets With Heat Exchanger
4	505-0376	1	Elbow, Pipe (45°)	22	502-0037	1	Elbow, Brass - By-Pass Line
5	154-1057	4	Gasket, Exhaust Manifold	23			Cross, Pipe (3/8")
6			Plug, Pipe (3/8") Exhaust Manifold	505-0475	1		Sets Without Water Jacket Heater (Water By-Pass Line)
	505-0110	1	Square Head (Bottom Mounted)	505-0475	2		Sets With Water Jacket Heater (Water By-Pass Line)
	505-0266	1	* Countersunk Head (Top Mounted) - Set With Heat Exchanger	24	505-0224	1	and Water Inlet)
7			Elbow, Inverted Male (Manifold Water Line Inlet)	25	309-0178	1	Nipple, Pipe (3/8" x 4-1/2")
	502-0074	2	Sets Without Heat Exchanger	26			Switch, High Water Temperature (Not Used on Pennsylvania Approved Sets)
	502-0074	1	Sets With Heat Exchanger	193-0104	1		Sender, Water Temperature Spec A through AA
8	130-0510	2	Line, Water - Thermostat Cover to Manifold	193-0246	1		Begin Spec AB
9	502-0103	2	Connector, Inverted Male - Thermostat Cover Outlet	27	130-0633	1	Line, Water By-Pass
10	309-0160	2	Cover, Thermostat	130-0813	1		Sets Without Heat Exchanger
11	505-0274	2	Plug, Pipe (1/8") Countersunk - Thermostat Cover	28	502-0237	1	Sets With Heat Exchanger
12	309-0145	2	Gasket, Thermostat Cover	29			Elbow, Brass - Water Inlet (Used on Early Models)
13	309-0130	2	Thermostat	503-0394	1		Hose, Water Inlet
14	520-0143	4	Stud, Thermostat Cover Mounting	503-0478	1		Used With Brass Fittings (1/2" x 9-5/8")
15	869-0002	4	Nut, Acorn (5/16-24) Thermostat Cover	30	503-0183	2	Used With Pipe Fittings (3/4" x 9")
16	505-0039	1	Elbow, Pipe (3/8" x 1") - Water Inlet	31	130-0533	2	Clamp, Water Inlet Hose
17			*Plug, Exhaust Manifold Expansion (1-1/8" OD)	32	502-0239	2	Adapter, Water Inlet Hose (Used on Early Models)
	517-0041	4	Welch (1-7/16" OD)	33	502-0247	1	Nut, Inverted (Brass) Water Inlet (Used on Early Models)
18	517-0059	1	Nipple, Close - Pipe (3/8" x 1")	34	504-0019	1	Tee, Male Branch (Brass) Water Inlet (Used on Early Models)
			Sets Without Water Jacket Heater	35	502-0080	1	Valve, Globe
	505-0101	5	Sets With Water Jacket Heater	36	307-0833	1	Plug, Square Head (Brass) (1/8") Used on Early Models
	505-0101	7	Sets With Water Jacket Heater	37	505-0402	1	Valve, Solenoid
19	505-0060	2	Tee, Pipe (3/8") Water Inlet and Exhaust Manifold	38	309-0081	1	Plug, Pipe - Square Head (1-1/2") Begin Spec B
20			Nipple, Half - Pipe (3/8" x 1-1/2") - Water Inlet	39	502-0097	1	Extension, Pipe
	505-0135	3	Sets Without Water Jacket Heater				Connector, Brass - By-Pass Line
	505-0135	4	Sets With Water Jacket Heater				

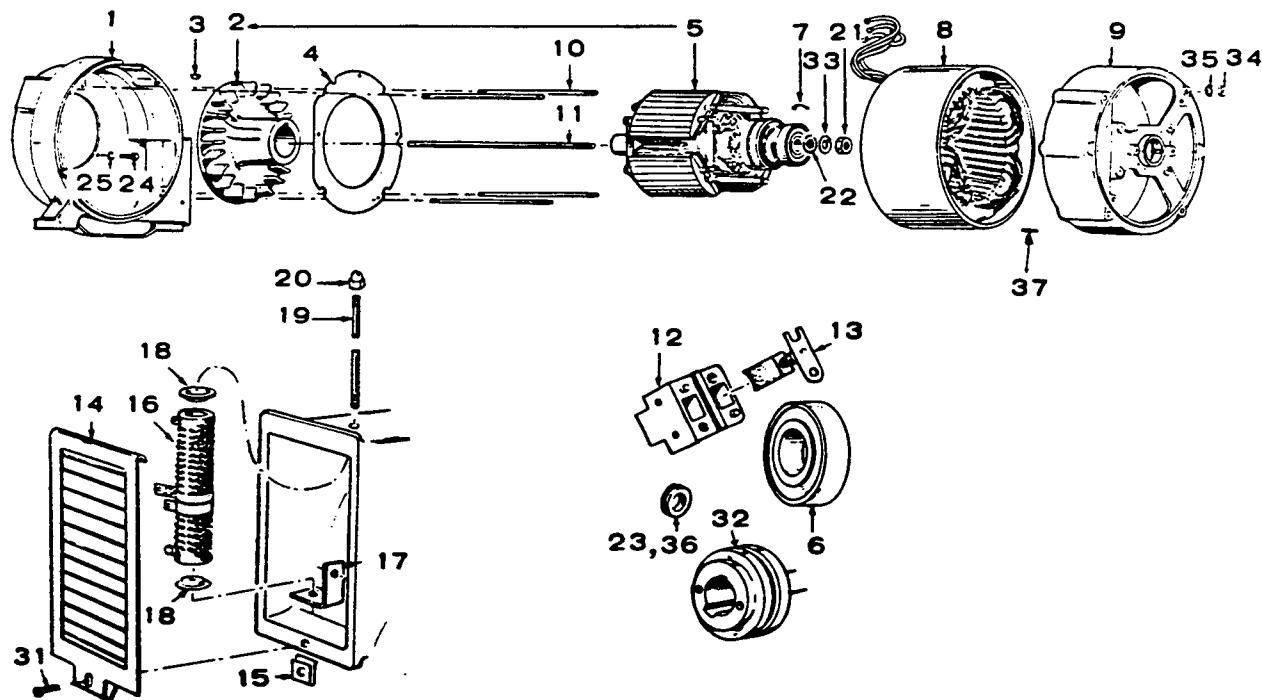
\* - Parts Included in 154-2124 Exhaust Manifold Assembly.

## Exhaust System



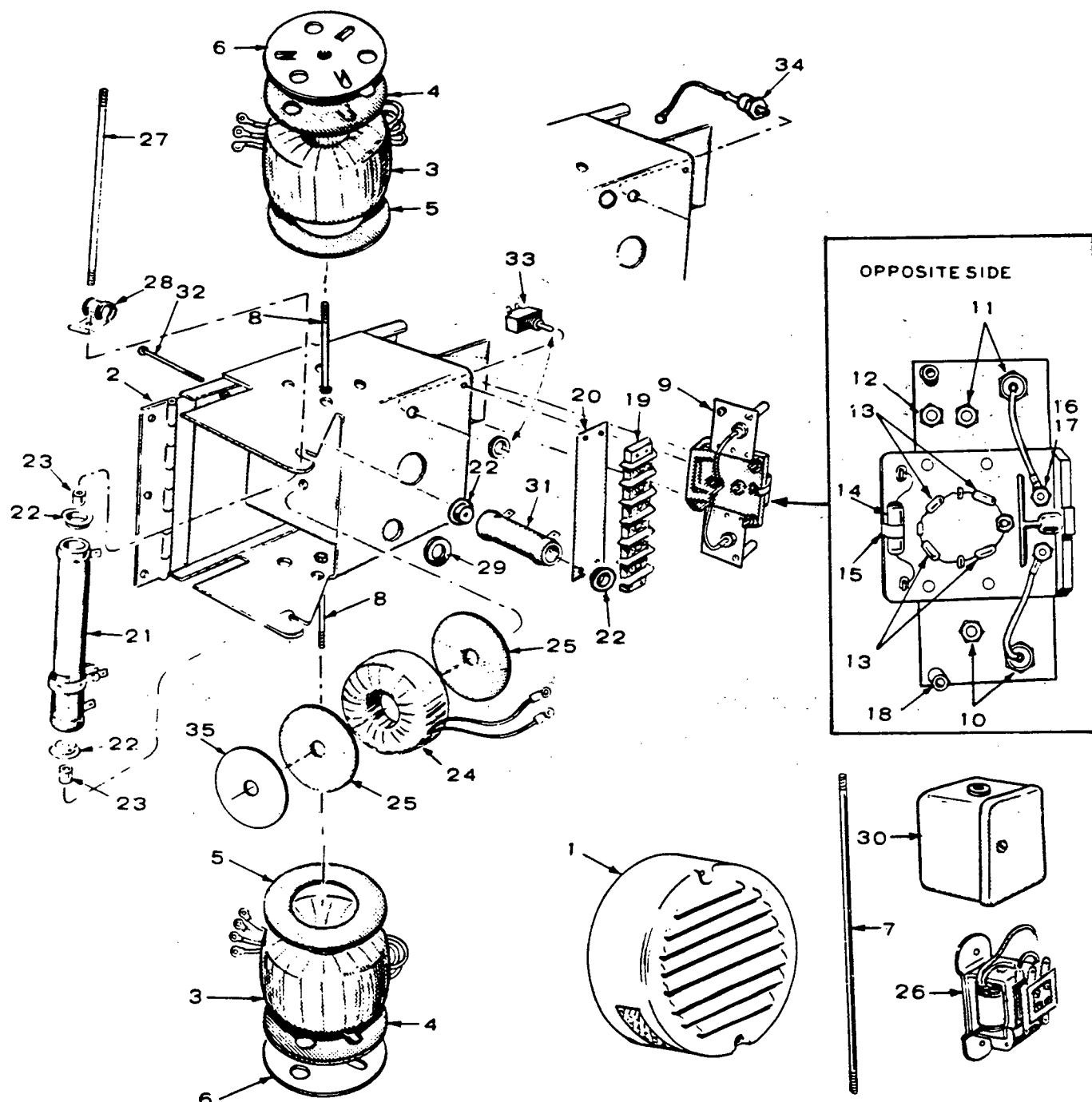
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-0714	1	Manifold, Exhaust - Key 1,2	14	850-0050	2	Washer, Lock - Exhaust Tube Mounting (3/8)
2	154-1057	4	Gasket, Exhaust Manifold	15	154-1665	4	Locktabs - Exhaust Manifold Mounting
3	155-0456	1	Muffler	16	505-0032	1	Coupling (1-1/2") - Use With Exhaust Tube #155-0493
4	155-0493	1	Tube, Exhaust - Flexible				
6	154-0738	1	Gasket, Exhaust Outlet				
7	155-0806	1	Tube, Exhaust Outlet				
12	110-0445	8	Nut, Hex - Exhaust Manifold Mounting (Special)				
13	800-0052	2	Screw, Cap - Hex Head - Exhaust Tube Mounting (3/8-16 x 1-1/2")				

**Generator**  
**Spec A through Z**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1	231-0096	1	Adapter, Engine to Generator Spec A Only (No Longer Available)	13	214-0059	4	Brush, Collector Ring	
	231-0112	1	Begin Spec B	14	234-0199	1	Cover, Air Outlet	
2	205-0064	1	Blower, Generator	15	870-0177	1	Clip, Air Outlet Cover	
3	515-0006	1	Key, Blower	16	304-0500	1	Resistor, Tapped Adjustable	
4	234-0162	1	Baffle, Generator Air	17	232-1565	1	Bracket, Resistor Mounting	
5			Rotor Assembly, Wound (Includes Bearing & Blower)	18	304-0006	2	Washer, Resistor Centering	
	201-1121	1	Key 1,3	19	520-0620	1	Stud, Resistor Mounting	
	201-1122	1	Key 2,4	20	866-0001	1	Nut, Acorn - Resistor Mounting (1/4-20)	
6	510-0047	1	Bearing, Rotor	21	870-0203	1	Nut, Hex - Rotor Through Stud (Special)	
7	232-0596	1	Clip, Bearing Stop	22	232-0200	1	Washer, Tapered - Rotor Through Stud	
8			Stator Assembly, Wound 60 Hertz Sets	23	508-0095	1	Grommet, Rubber - Air Baffle	
	220-0732	1	12.5 RJC	24	800-0050	2	Screw, Cap - Hex Head 3/8-16 x 1"	
			1 Phase		800-0051	2	3/8-16 x 1-1/4"	
	220-0884	1	3 Phase - 120/240 Volt	25	850-0050	4	Washer, Lock - Adapter Mounting (3/8")	
	220-0736	1	15.0 RJC		31	1	Screw, Round Head - Machine Air Outlet Cover Mounting (10-24 x 5/8")	
9	211-0146	1	1 Phase		32	204-0061	1	Collector Ring
			Bell, End Alternator to Exciter		33	850-0055	1	Washer, Lock (7/16")
10	520-0638	4	Stud, Generator Through		34	862-0015	4	Nut, Hex (5/16-18) - Generator through Stud
	520-0640	4	Key 1,3		35	850-0045	4	Washer, Lock (5/16")
11			Key 2,4		36	508-0112	1	Grommet, Rubber - Lead Out
	520-0613	1	Stud, Rotor Through		37	516-0138	2	Pin, Roll - Alignment (3/16 x 5/8")
	520-0615	1	Key 1,3					
12	212-1064	2	Key 2,4					
			Block, Collector Ring Brush					

**Generator Exciter**  
**Spec A Through Z**



**NOTE:** 06SX1N1B used on 60 hertz Models Spec A, B & C.

06SC1N1B used on all 60 hertz Models Spec A, B & C.

06SX1N3B used on all 60 hertz Models except 120/240 volt, 3 phase Models begin Spec D.

06SX51N1B used on 50 hertz Models Spec's A,B & C.

06SX51N1B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec S.

06SC51N3B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec D.

Check set nameplate for Magneciter number and use correct column.

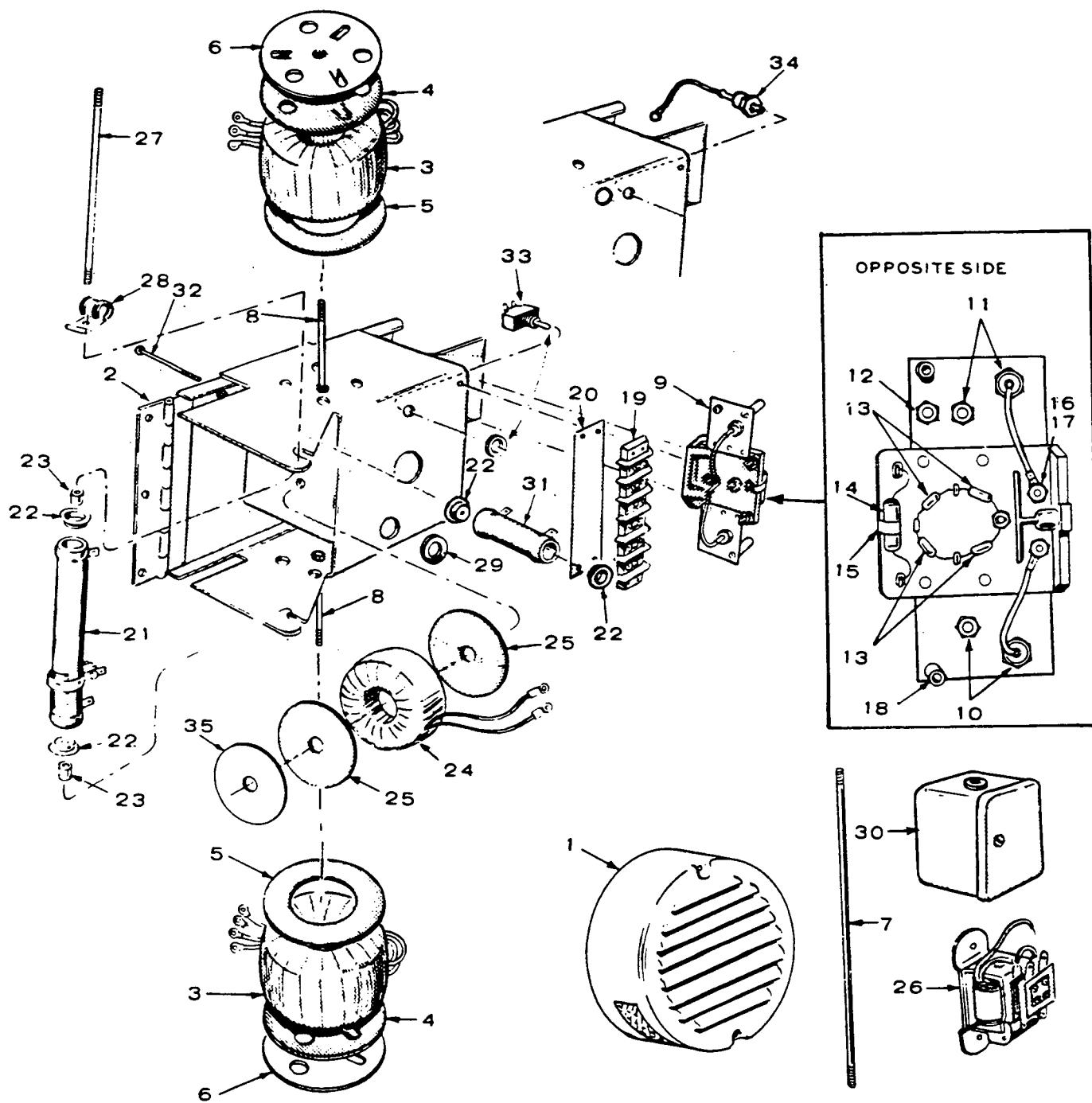
**Generator Exciter**  
**Spec A Through Z**

NOTE: 06SX1N1B used on 60 hertz Models Spec A, B & C.  
 06SC1N1B used on all 60 hertz Models Spec A, B & C.  
 06SX1N3B used on all 60 hertz Models except 120/240 volt, 3 phase Model begin Spec D.  
 06SX51N1B used on 50 hertz Models Spec's A, B & C.  
 06SX51N1B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec S.  
 06SC51N3B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec D.

Check set nameplate for Magneclite number and use correct column.

REF NO.	PART NO.	PART DESCRIPTION	QUANTITY USED									
			A	B	C	D	E	F	G	H	J	K
	02SX1N1A	Use Column A		X								
	04SX1N1A	Use Column B			X							
	04SX1N1B	Use Column C				X						
	04SX1N3B	Use Column D					X					
	06SX1N1A	Use Column E					X					
	06SX1N1B	Use Column F						X				
	06SX1N3B	Use Column G							X			
	06SX51N1A	Use Column H								X		
	06SX51N1B	Use Column J									X	
	06SX51N3B	Use Column K										X
	209-0001	Exciter, Complete (Less Cover)	1									
	209-0002	Exciter, Complete (Less Cover)		1								
	209-0003	Exciter, Complete (Less Cover)			1							
	209-0005	Exciter, Complete (Less Cover)				1						
	209-0007	Exciter, Complete (Less Cover)					1					
	209-0008	Exciter, Complete (Less Cover)						1				
	209-0010	Exciter, Complete (Less Cover)							1			
	209-0011	Exciter, Complete (Less Cover)								1		
	209-0012	Exciter, Complete (Less Cover)									1	
	209-0013	Exciter, Complete (Less Cover)										1
1	234-0154	'Cover, Exciter (No Longer Available)	1	1								
1	234-0185	'Cover, Exciter			1	1						
2	234-0153	Panel Only, Exciter	1	1								
2	234-0188	Panel Only, Exciter			1	1						
3	315-0084	Reactor, Gate	2									
3	315-0099	Reactor, Gate		2	2	2						
3	315-0102	Reactor, Gate				2	2	2				
3	315-0104	Reactor, Gate					2	2	2	2	2	2
4	232-1553	Gasket, Gate Reactor Mounting - Outer	2	2	2	2						
4	232-1608	Gasket, Gate Reactor-Outer(No Longer Avail.)				2	2	2	2	2	2	2
5	232-1551	Gasket, Gate Reactor Mounting - Inner	2	2	2	2	2	2	2	2	2	2
6	232-1552	Retainer, Gate Reactor	2	2	2	2						
6	234-0191	Retainer, Gate Reactor					2					
7	520-0211	Stud, Gate Reactor Mounting	1	1				1				
8	800-0013	Screw, Cap - Hex Head (1/4-20 x 2-1/2")			2	2						
8	800-0015	Screw, Cap - Hex Head (1/4-20 x 3")					2	2				
9	305-0259	Rectifier Assembly (Includes Parts Marked †)	1	1	1							
9	305-0387	Rectifier Assembly (Includes Parts Marked @)				1						
9	305-0264	Rectifier Assembly (Includes Parts Marked *)					1	1				
9	305-0388	Rectifier Assembly (Includes Parts Marked \$)							1			
10	305-0238	†@*\$Rectifier Only, Power Field (Negative)	2	2	2	2	2	2	2	2	2	2
11	305-0239	\$@*\$Rectifier Only, Power Field (Positive)	2	2	2	2	2	2	2	2	2	2
12	305-0239	\$@Rectifier Only, Field Flash				1			1			1
13	305-0240	†@*\$Rectifier, Voltage Control	4	4	4	4	4	4	4	4	4	4
14	304-0476	†@Resistor (500-Ohm, 5 Watt)	1	1	1	1						
14	304-0512	*\$Resistor (150-Ohm, 50 Watt)					1	1	1	1	1	1
15	304-0498	†@*\$Clip, Resistor Mounting	1	1	1	1	1	1	1	1	1	1
16	332-0697	†@*\$Stud, Terminal (Flat Head)	2	2	2	2	2	2	2	2	2	2
17	332-0698	†@*\$Stud, Terminal (Extended Slotted Head)	1	1	1	1	1	1	1	1	1	1
18	870-0196	†@*\$Fastener (Compression Type)	2	2	2	2	2	2	2	2	2	2
19	332-0699	Block, Terminal	1	1			1			1		
19	332-0745	Block, Terminal			1	1			1		1	1
20	332-0700	Strip, Block Marker (No Longer Available)	1									
20	332-0738	Strip, Block Marker (No Longer Available)		1			1			1		
20	332-0746	Strip, Block Marker			1			1			1	
20	332-0925	Strip, Block Marker				1			1			1

**Generator Exciter**  
**Spec A Through Z**



**NOTE:** 06SX1N1B used on 60 hertz Models Spec A, B & C.

06SC1N1B used on all 60 hertz Models Spec A, B & C.

06SX1N3B used on all 60 hertz Models except 120/240 volt, 3 phase Models begin Spec D.

06SX51N1B used on 50 hertz Models Spec's A, B & C.

06SX51N1B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec S.

06SC51N3B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec D.

Check set nameplate for Magneciter number and use correct column.

**Generator Exciter**  
**Spec A Through Z**

REF NO.	PART NO.	PART DESCRIPTION	QUANTITY USED									
			A	B	C	D	E	F	G	H	J	K
21	304-0489	Resistor, Fixed (200-Ohm, 50 Watt)	1									
21	304-0511	Resistor, Tapped - 500-Ohm (425 Fixed, 75 Adj.)		1			1			1		
21	304-0527	Resistor, Tapped - 500-Ohm (425 Fixed, 75 Adj.)			1	1	4	4	1	1	1	1
22	304-0015	Washer, Centering - Resistor	2	4	4	4	4	4	4	4	4	4
23	232-1473	Spacer, Resistor Mounting	2				2			2		
23	232-1550	Spacer, Resistor Mounting (No Longer Avail.)		2		2		2		2		
23	232-1474	Spacer, Resistor Mounting			2	2		2	2	2	2	2
24	315-0085	Reactor, Voltage Control	1									
24	315-0100	Reactor, Voltage Control		1	1	1	1	1	1		1	1
24	315-0105	Reactor, Voltage Control								1	1	1
25	232-1548	Gasket, Voltage Control Reactor	2	2	2	2	2	2	2			
26	307-0584	Relay, Field Build-Up	1						2	2	2	2
27	520-0641	Stud, Tapped Resistor Mounting	1		1	1		1	1		1	1
27	812-0116	Screw, Tapped Resistor Mounting (RHMS #10-24 x 4-1/2")		1			1			1		
28	332-0050	Clip, Loop	1	1			1			1		
28	332-0052	Clip, Loop			1	1	1	1	1	1	1	1
29	508-0008	Grommet, Rubber (For 7/8" Hole)	1	1	1	1	1	1	1	1	1	1
30	307-0643	Cover, Field Relay (No Longer Available)	1									
31	304-0510	Resistor, Fixed (250-Ohm, 25 Watt)		1	1	1	1	1	1	1	1	1
32	813-0112	Screw, Fixed Resistor Mounting (RHSMS #10-32 x 2-1/2")		1	1	1	1	1	1	1	1	1
33	308-0175	Switch, Residual Reset			1			1			1	
34	305-0238	Rectifier, Power Field - Negative				1			1		1	
35	526-0173	Washer, Retainer - Voltage Control Reactor	1	1	1	1	1	1	1	1	1	1
ASSOCIATED HARDWARE (NOT ILLUSTRATED)												
		Screw, Machine - Round Head										
812-0156		1/4-20 x 1-1/2"										
813-0101		#10-32 x 9/16"										
811-0098		#10-32 x 3/8" (Brass)										
813-0098		#10-32 x 3/8"										
815-0190		#8-32 x 3/8"										
815-0198		#8-32 x 5/8"										
815-0001		Screw, Machine - Binder Head (Brass) (#6-32 x 1/4")										
		Washer, Flat										
526-0003		11/64" ID x 3/8" OD x 1/32" Thk										
526-0048		.172" ID x 3/8" OD x 1/32" Thk										
526-0049		.200" ID x 7/16" OD x 1/32" Thk										
526-0179		7/32" ID x 5/8" OD x 1/16" Thk										
		Washer, Lock - Spring										
850-0030		#10										
850-0040		1/4"										
853-0005		Washer, Lock - ET										
853-0005		Washer, Lock - IT										
854-0007		#8										
854-0010		#10										
854-0014		1/4"										
		Nut, Hex										
860-0008		#8-32										
860-0011		#10-24										
862-0001		1/4-20										
870-0053		#10-32										
		#6-32 (Brass)										
871-0007		#8-32 (Brass)										
871-0010		#10-32 (Brass)										

\* - Use 234-0223 cover for housed sets.

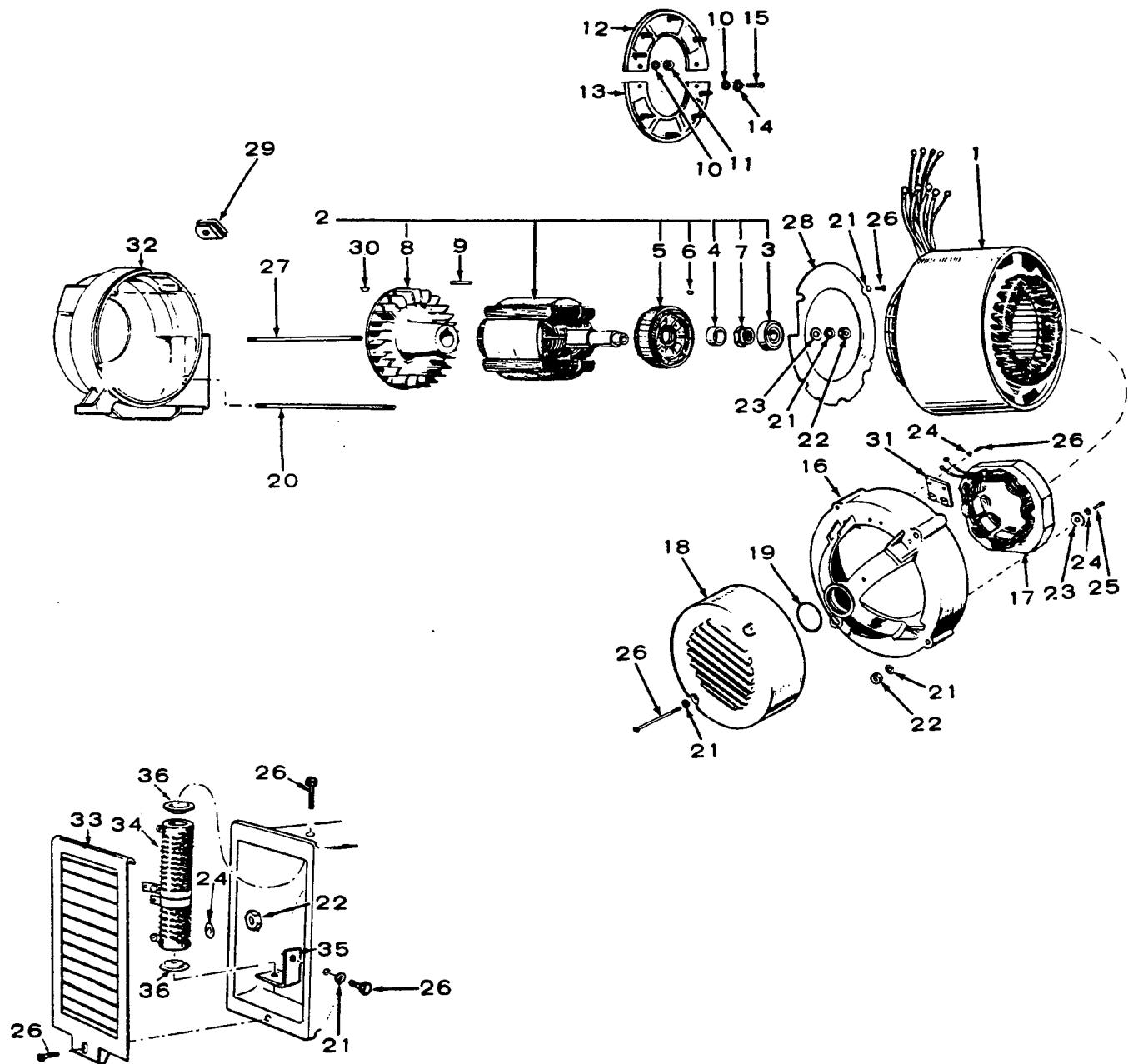
† - Parts included in 305-0259 Rectifier Assembly.

‡ - Parts included in 305-0387 Rectifier Assembly.

\* - Parts included in 305-0264 Rectifier Assembly.

§ - Parts included in 305-0388 Rectifier Assembly.

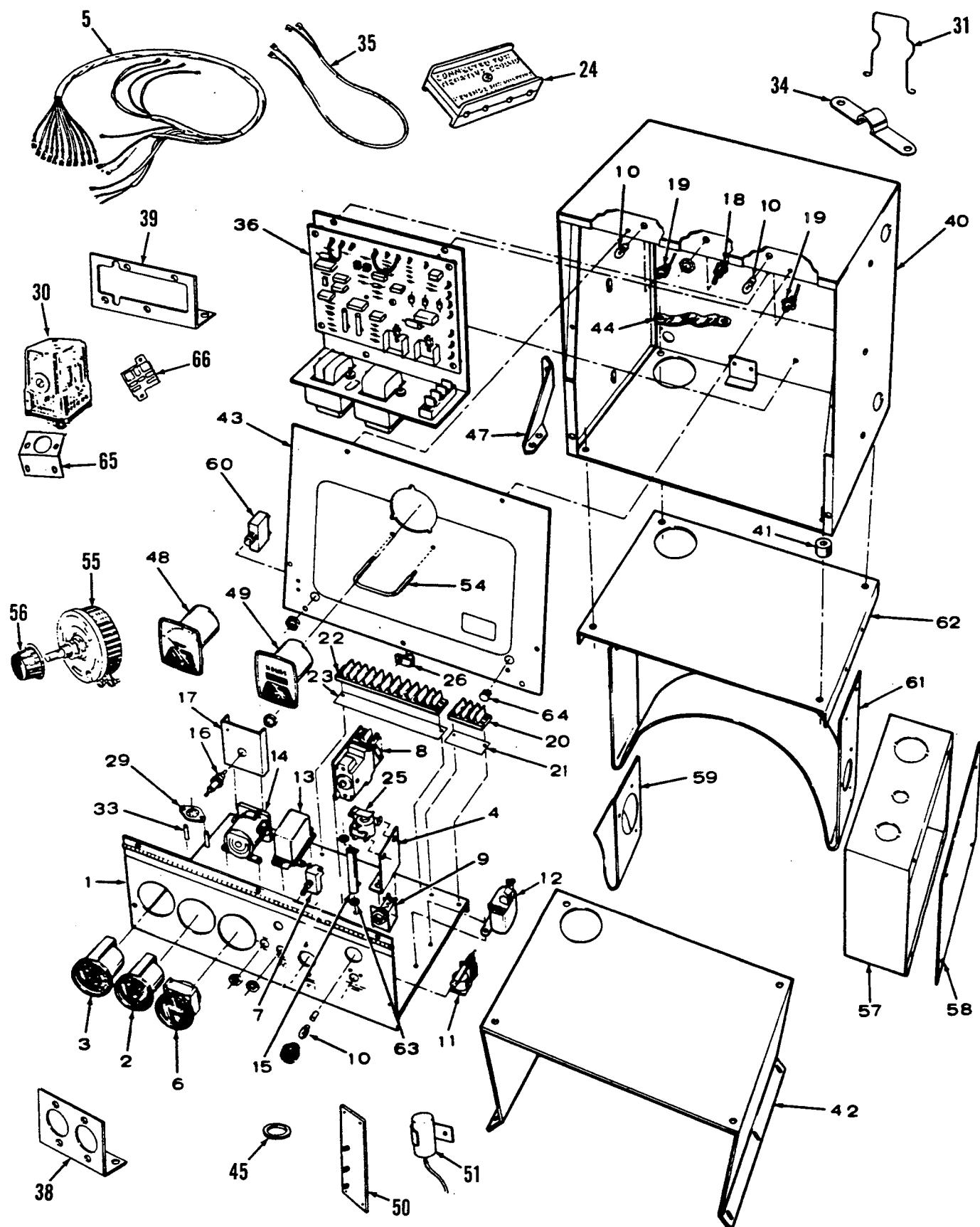
**Generator - Begin Spec AA**



**Generator - Begin Spec AA**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator Assembly, Wound <b>60 Hertz Sets</b> 12.5 RJC	22	862-0011	4	Nut, Hex Generator Through Stud (3/8-16)
220-2017	1		Single Phase	870-0203	1		Rotor Through Stud (7/16-20)
220-2042	1		Three Phase - All Except 347/600 Volts	871-0010	1		Resistor Tap (#10-32)
220-2285	1		Three Phase - 347/600 Volts Only	23	526-0260	2	Washer, Flat Exciter Stator Mounting .280 ID x 1.25 OD x 10 Gauge Thk)
220-2018	1		15.0 RJC Single Phase	24	232-0200	1	Rotor Through Stud (Special)
220-2043	1		Three Phase - All Except 347/600 Volts	853-0013	2		Washer, Shaperoof Exciter Stator Mounting (1/4")
220-2286	1		Three Phase - 347/600 Volts Only	856-0003	1		Tapped Resistor (#10)
			<b>50 Hertz Sets</b> 12.5 RJC	25	800-0004	2	Screw, Cap - Hex Head - Exciter Stator Mounting (1/4-20 x 5/8")
220-2026	1		Single Phase	26	812-0165	2	Screw, Round Head - Machine End Bell Cover (1/4-20 x 4-1/2")
220-2051	1		Three Phase	815-0194	4		Connection Board Mounting (10-32 x 3/8" Lg)
2			Rotor Assembly, Wound (Includes Parts Marked +)	813-0098	4		Baffle Mounting (#10-32 x 3/8")
201-2157	1		Key 1,3	812-0150	2		Resistor Bracket Mounting (1/4-20 x 5/8")
201-2158	1		Key 2,4	812-0167	1		Resistor Mounting (1/4-20 x 5-1/2")
3	510-0112	1	+Bearing, Rotor	811-0098	1		Resistor Tap (#10-32 x 3/8")
4	232-2398	1	+Spacer, Bearing	27	520-0789	1	Stud, Rotor Through
5	201-2151	1	+Rotor, Exciter - Wound	520-0790	1		Key 1,3
6	515-0094	1	+Key, Exciter Rotor (Nylon Insert - 1-1/8 - 12 UNP)	28	520-0790	1	Key 2,4
7	870-0284	1	+Nut, Lock - Exciter Rotor (Nylon Insert - 1-1/8 - 12 UNP)	29	234-0462	1	Baffle, Air
8	205-0105	1	+Fan, Generator	508-0112	1		Grommet, Rubber
9	515-0103	1	+Key, Fan	508-0095	1		2-3/4 x 1-7/8" (Lead Outlet)
10	526-0008	12	+Washer, Flat (13/64 ID x 7/16 OD x 1/32" Thk)	30	515-0006	1	25/32" x 21/32"
11	870-0131	8	+Nut, Hex (#10-32)	31	232-2418	1	Key, Fan
12	358-0069	1	+Rectifier Assembly (Positive)	32	231-0171	1	Board, Connection
13	358-0070	1	+Rectifier Assembly (Negative)	33	234-0492	1	Adapter, Generator
14	853-0008	4	+Washer, Shaperoof (#10)	34	304-0500	1	Cover, Air Outlet
15	813-0100	4	+Screw, Round Head - Machine (#10-32 x 1/2")	35	304-0534	1	Resistor, Tapped (Adjustable)
16	211-0237	1	Bell, End	36	232-2399	1	For Sets with 12 or 24 Volt DC
17	220-2009	1	Stator, Exciter - Wound Cover, End Bell	304-0006	2		For Sets with 32 Volt DC
18	234-0185	1	Without Overspeed				Bracket, Resistor Mounting
	234-0498	1	With Overspeed				Washer, Centering - Resistor Mounting
19	509-0094	1	Seal, Bearing ("O" Ring)				
20	520-0797	4	Stud, Generator Through				
	520-0798	4	Key 1,3				
21	850-0050	4	Key 2,4				
	850-0040	2	Washer, Lock				
	850-0040	2	Generator Through Stud (3/8")				
	850-0040	2	End Bell Cover Mounting (1/4")				
	850-0040	2	Resistor Bracket Mounting (1/4")				
	850-0040	1	Resistor Through Screw (1/4")				
	850-0030	4	Air Baffle Mounting (#10)				
	850-0055	1	Rotor Through Stud (7/16")				
							+ - Parts Included in the Rotor Assembly.

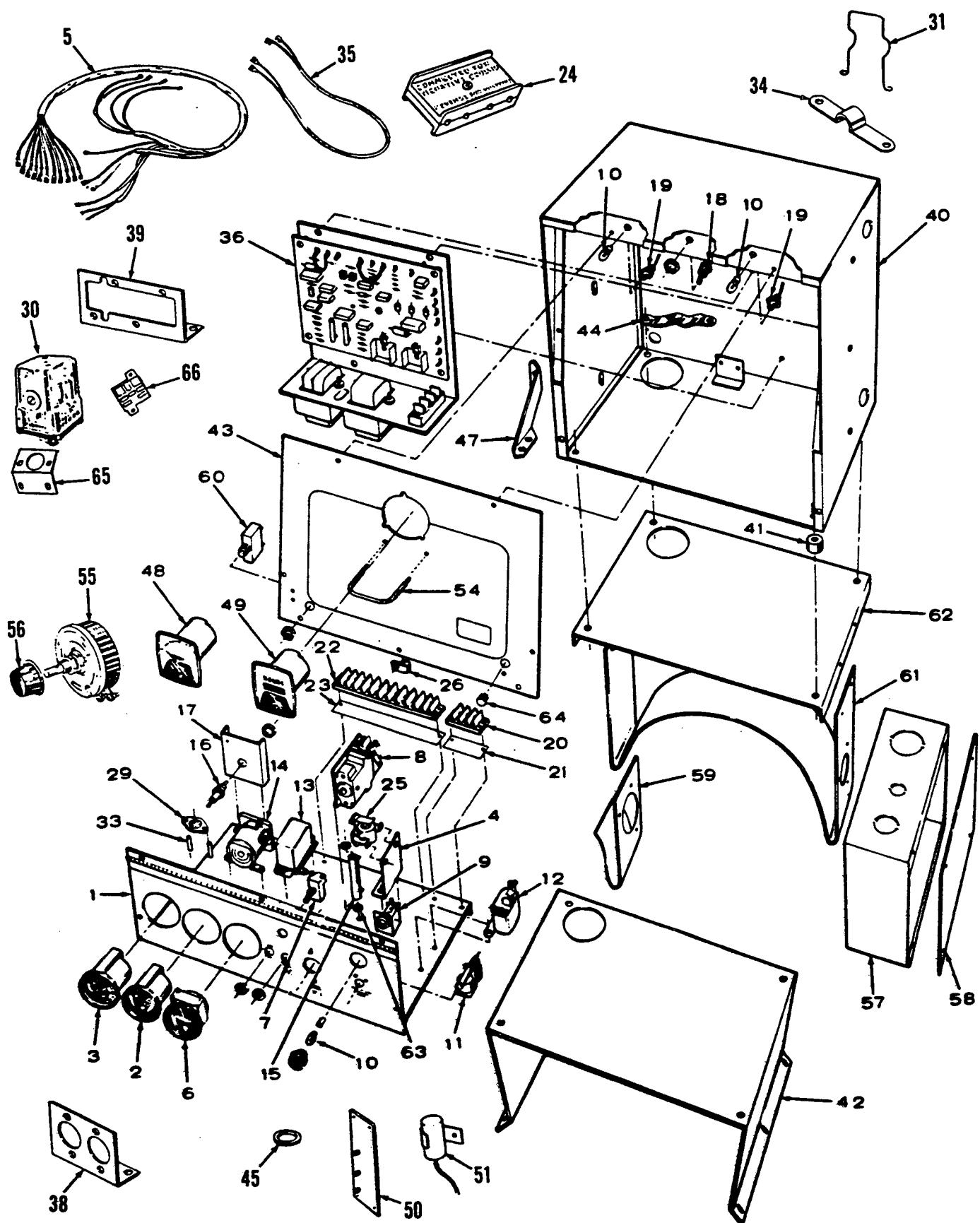
**Control**



**Control**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-2124	1	Panel, Lower Control	30	307-0819	1	Relay
	302-2125	1	Sets With 1 Signal Light				Sets With Low Engine
			Sets With 4 Signal Lights				Temperature Switch
2	193-0106	1	Gauge, Water Temperature	307-0819		1	Sets With Low Oil Pressure
	193-0245	1	Spec A through AA				Switch
			Begin Spec AB	307-0819		1	Sets With High Water
3	193-0107	1	Gauge, Oil Pressure	31	307-0778	3	Temperature Switch
	193-0243	1	Spec A through AA				Spring, Relay Holdown Sets
			Spec AB	33	332-0943	2	with Low Engine Temperature,
	193-0272	1	Begin Spec AC	34	332-1043	1	Low Oil Pressure, High Water
4	301-1685	1	Bracket, Time Delay Relay				Temperature Switches
			Mounting (Sets with Low Oil	338-0763			Spacer, Relay Socket
			Pressure Switch)				Jumper, Terminal Board -
5	338-0338	1	Harness, Wiring - Engine to	35			Begin Spec A B
			Control				Harness, Wiring
6	302-1366	1	Ammeter, Charge	338-0936		1	Voltage Regulator to
7	308-0138	1	Switch, Selector - Run-Stop-				Circuit Breaker
			Remote	36	305-0583	1	Voltage Regulator to
8	320-0104	1	Limiter, Cranking				Running Time Meter
	320-0259	1	Switch	38	301-2393	1	Regulator, Voltage - Begin
9	322-0069	1	Receptacle, Signal Light				Spec AA (See Separate Group
10	322-0004	3	Bulb, Signal and Panel Light				for Components)
11			Relay, Emergency	39	301-3252	1	Bracket, Relay Mounting (Sets
	307-0655	1	Latching				with Four Signal Lights)
	307-0655	1	Low Oil Pressure Shutdown	40	301-2115	1	Used for Low Oil Pressure
	307-0655	1	High Water Temperature	41	402-0078	4	and High Water Temperature
			Shutdown	42	301-2106	1	Relays or 5 and 10 second
	307-0655	1	Overspeed Shutdown				Cycle Cranker Relays
12	307-0052	1	Relay, Start Disconnect	43			Used for Generating and Low
13	307-0597	1	Relay, Ignition				Engine Temperature Relays -
14	307-0514	1	Relay - Starter Pilot				Begin Spec AB
15	304-0192	1	Resistor, Cranking Limiter	44	301-1195	1	Box, Control
			(3 Ohm, 10 Watt)				Mount, Rubber
16	305-0673	1	Rectifier, Charge (10 Amp,	45			Bracket, Mounting - Control
			100 Volt) - Includes				Box (Unhoused Sets) - Spec A
			Mounting Hardware				through T
17	305-0254	1	Bracket, Rectifier Mounting				Panel, Upper Control (Sets
18	308-0002	1	Switch, Panel Light				Without Optional Meter Panel)
19	322-0072	2	Receptacle, Panel Light	46			Spec A through Z
20	332-0611	2	Block, Terminal - 3 Place				All Except Pennsylvania
			(Remote)				Approved Sets
21	332-1009	1	Strip, Marker - 3 Place	47			Begin Spec AA
22			Block, Terminal				All Except Pennsylvania
	332-0607	1	Sets With 1 Signal Light	48	301-2019	1	Approved Sets
			(12 Place)				Strap, Ground (Unhoused Sets)
	332-1005	1	Sets With 4 Signal Lights				Spec A through Z
			(20 Place)				Begin Spec AA
23			Strip, Marker				Grommet, Rubber
	332-0642	1	Sets With 1 Signal Light	49	508-0063	2	2-3/4" Hole - Unhoused Sets
	332-0608	1	(12 Place)				(Housed Sets Use 1)
	332-1006	1	Spec A and B (Blank)		508-0183	1	1-3/4" Hole - Output Box
			Begin Spec C	47	301-1914	1	Bracket, Panel Stop
	332-1006	1	Sets With 4 Signal Lights	48	302-0421	1	Voltmeter, AC
			(20 Place)		302-0422	1	Single Phase Sets (Scale
24	332-0750	1	Kit, Polarity Marker - Spec A		302-0423	1	Reads 0-300)
			through N				Three Phase Sets (Scale
25	307-0388	1	Relay, Time Delay (Sets With				Reads 0-600)
			Low Oil Pressure Switch)				Three Phase Sets (Scale
			Clip, Harness Support				Reads 0-750)
26	416-0096	1	1/2" ID	49			Meter, Running Time - Begin
	332-0052	1	5/8" ID				Spec AA
29	323-0321	3	Socket, Low Engine Temperature,	302-0468	1	50 Hertz Sets	
			Low Oil Pressure, High Water	302-0465	1	60 Hertz Sets	
			Temperature Relay	50	332-0513	1	Block, Terminal - 4 Place

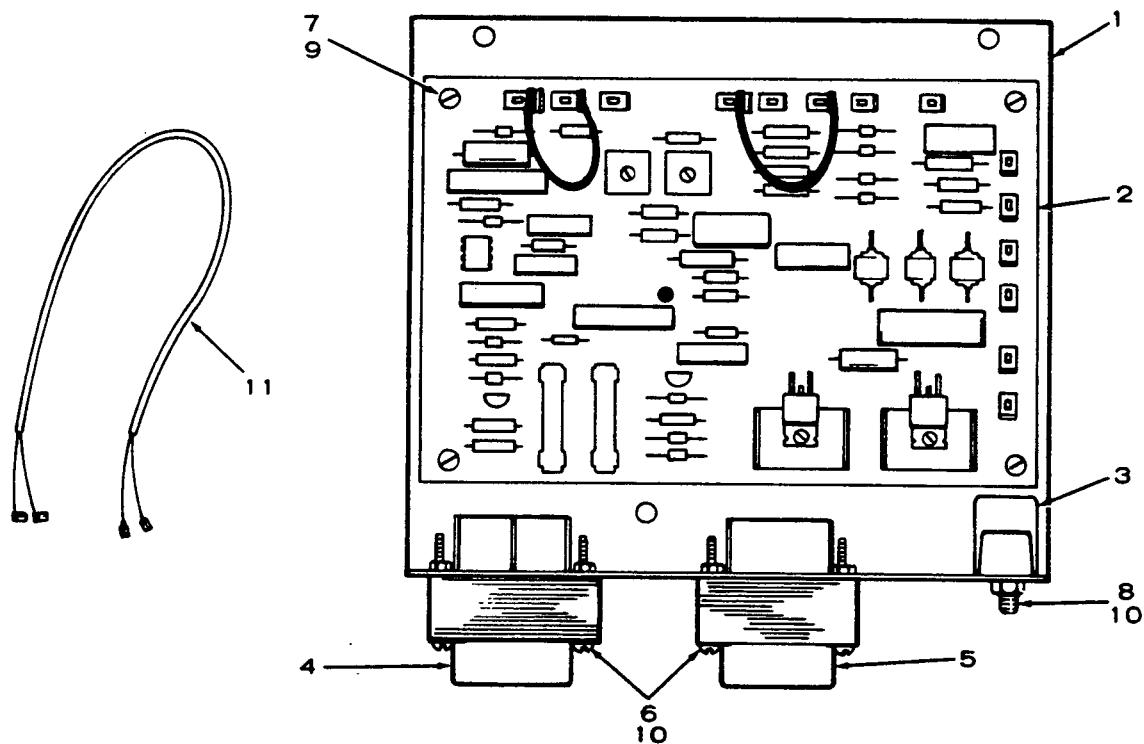
**Control**



**Control**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
51	312-0058	3	Condenser (.1 Mfd.) Spec A through Z	60	320-0505	1	Breaker, Circuit - Voltage Regulator - Begin Spec AA
54	301-2727	1	Handle, Upper Control Panel	61	301-3715	1	Saddle, Control Box Mounting (Unhoused Sets) Begin Spec AA
55	303-0197	1	Rheostat (2500 Ohm, 25 Watt) Sets With Voltage Adjustment - Begin Spec AA	62	301-3716	1	Plate, Control Mounting (Unhoused Sets) - Begin Spec AA
56	303-0032	1	Knob, Rheostat - Sets With Voltage Adjustment - Begin Spec AA	63	508-0017	2	Washer, Fiber - Resistor Mounting
57	301-3682	1	Box, Output - Begin Spec AA	64	517-0015	1	Plug, Dot Button
58	301-0856	1	Cover, Output Box - Begin Spec AA	65	301-3241	1	Bracket, Low Engine Temperature Relay
59	301-3720	1	Bracket, Output Box (Housed Sets) Begin Spec AA	66	323-0760	1	Socket, Relay

Voltage Regulator  
Begin Spec AA



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	305-0583	1	Regulator, Voltage (Includes Parts Marked *)	6	812-0070	4	*Screw, Machine - Round Head (#6-32 x 1-1/4")
1	301-3719	1	*Panel, Voltage Regulator Mounting	7	812-0061	4	*Screw, Machine - Round Head (#6-32 x 3/8")
2			Board, Voltage Regulator (See Separate Parts Catalog #900-0234 for Components)	8	812-0063	2	*Screw, Machine - Round Head (#6-32 x 1/2")
	300-1540	1	*† Begin Spec AB	9	853-0003	4	*Washer, Lock - ET (#6)
	300-1404	1	Begin Serial #F760142042 During Spec AA	10	870-0183	6	*Nut, Hex - ET (#6-32)
	300-1404	1	Prior to Serial #F760142042 During Spec AA	11			Harness, Wiring (Voltage Regulator to Exciter Stator)
3	332-1655	1	*Strip, Terminal	338-0762		1	Sets Without Overspeed Switch
4	315-0386	1	*Transformer, Voltage	338-0768		1	Sets With Overspeed Switch
5	315-0391	1	*Reactor				

\* - Parts Included in 305-0583 Voltage Regulator.  
† - Complete Replacement for 300-1404 and 300-1006 Regulator Board Assy.

### Service Kits and Miscellaneous

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
98-1807		1	Decal Kit, Plant				Touch-Up Paint (Pressurized Can)
168-0099		1	Gasket Kit, Plant				Silver Green (13 oz.)
			Overhaul Kit, Set	525-0137		1	
522-0211		1	Spec A through Q	525-0305		1	Non-metallic Green (13 oz.)
522-0236		1	Begn Spec R				

THE FOLLOWING SECTION IS A  
SPECIAL PARTS LIST  
FOR  
PENNSYLVANIA APPROVED  
GENERATING SETS

Refer first to this list for Pennsylvania Approved sets. Parts not in this list refer to the main parts list. When referring to the main parts list, reference to Spec letter or voltage also applies to these sets.

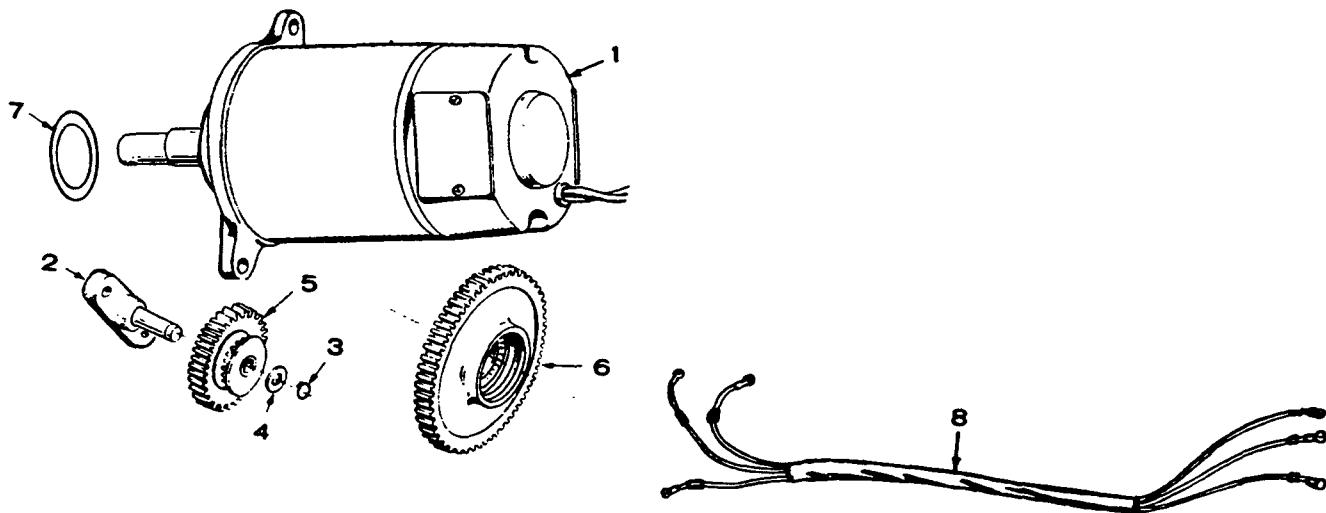
These sets are recognized by the numbers 30 (Gasoline Fuel), 31 (Gaseous Fuel), or 131 (Liquid Petroleum Fuel) appearing in the model. These numbers appear just before the diagonal line (/). (Example: 12.5RJC-4R31/1T).

The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.

Control (Special List)  
(Not Illustrated)

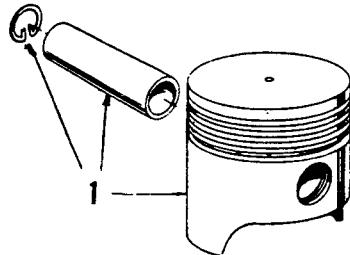
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-2895	1	Panel, Lower (Sets Without Signal Lights)	5			Panel, Upper (Sets Without Meter Panel)
2	308-0005	1	Switch, Selector - Run-Remote	301-2019		1	Spec A through Z
3	332-0795	1	Block, Terminal - 16 Place (Sets Without Signal Lights)	301-1788		1	Begin Spec AA
4	332-0862	1	Strip, Marker - 16 Place (Sets Without Signal Lights)				

**Starter (Special List)**  
**Spec A through Q**



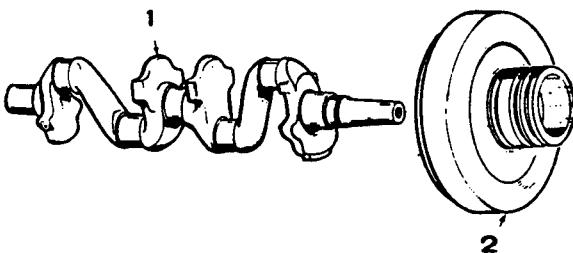
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-0453	1	Motor, Starter (12 Volt) - Includes Gear and Pin	5	191-0457	1	Gear Assembly, Idler (No Longer Available)
2	191-0342	1	Base and Shaft, Idler Gear (No Longer Available)	6	191-0354	1	Gear and Clutch Assembly, Crankshaft (No Longer Available)
3	518-0196	1	Ring, Retaining - Idler Gear (No Longer Available)	7	509-0093	1	Seal, "O" Ring - Starter Mounting
4	526-0175	1	Washer, Thrust - Idler Gear (41/64 ID x 29/32 OD x 1/16" Thk)	8	336-1199	1	Harness, Starter to Control

Piston and Rod (Special List)



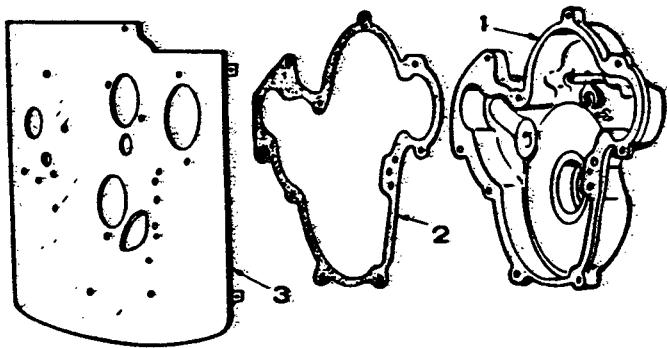
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston and Pin Assembly (Includes Pin Retaining Rings) - Gas Only Sets				
	112-0174	4	Standard				
	112-0174-10	4	.010" Oversize				
	112-0174-20	4	.020" Oversize				
	112-0174-30	4	.030" Oversize				

## Crankshaft and Flywheel (Special List)



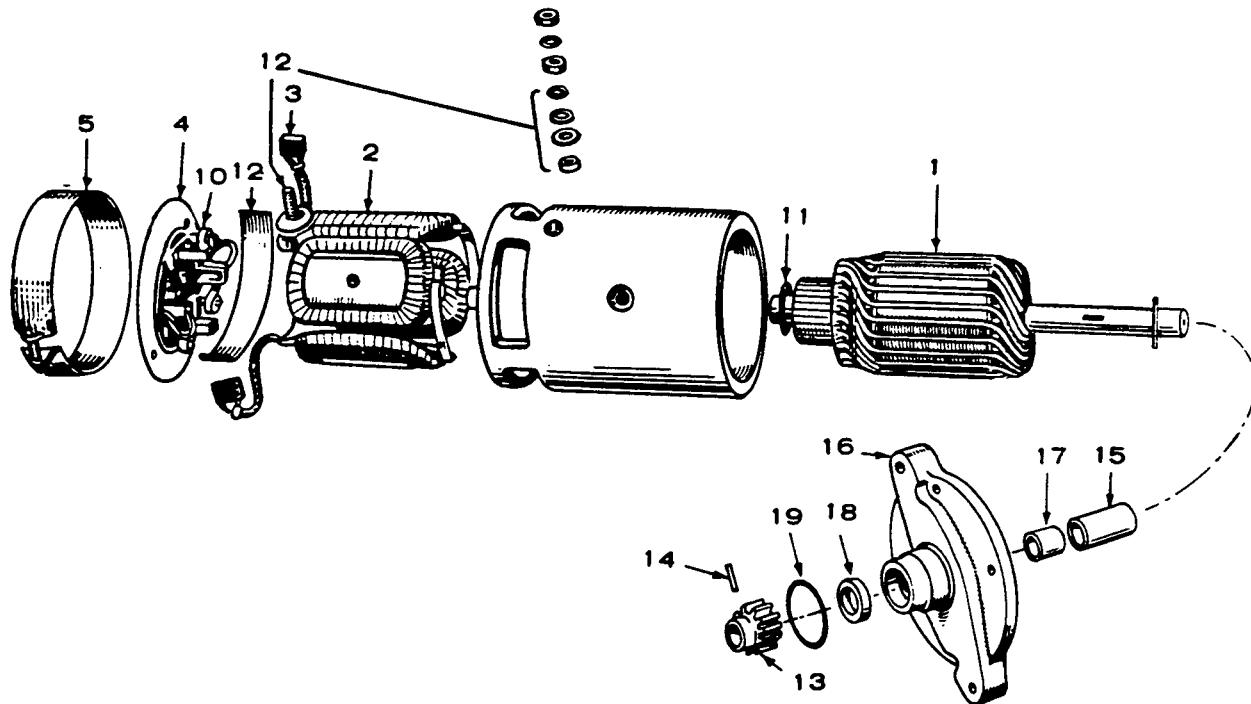
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0477	1	Crankshaft				
2	104-0556		Flywheel				

# Gearcase (Special List)



REF. NO.	PART NO.	QTY USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0279	1	Cover Assembly, Gear - Complete	2	103-0231	1	Gasket, Gear Cover
				3	103-0228	1	Backplate, Gear Cover

**Starter Parts (Special List)**  
Spec A through Q

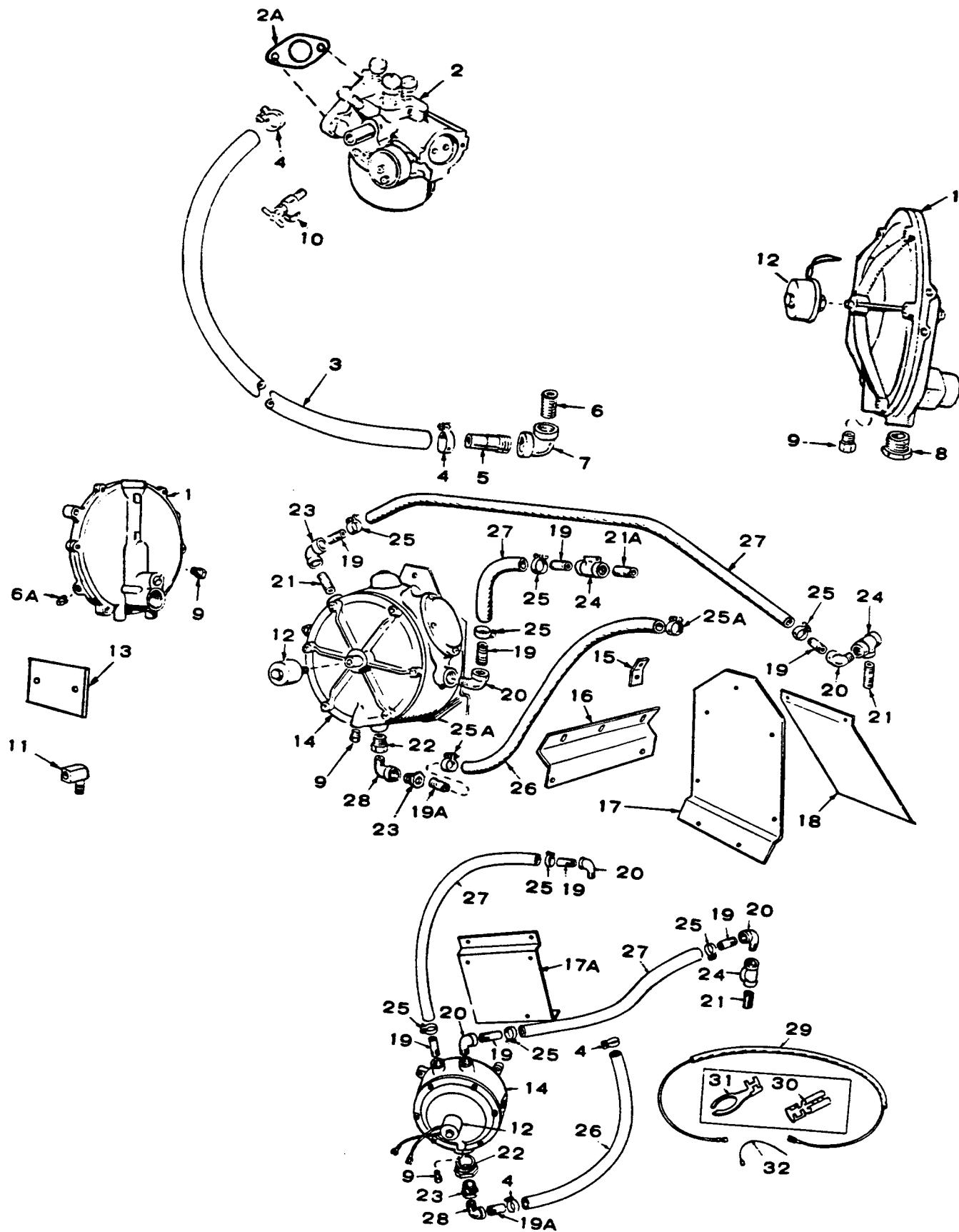


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-0453	1	Motor, Starting (12 Volt)	13	191-0450	1	Gear, Pinion (No Longer Available)
1	191-0452	1	Armature (No Longer Available)	14	516-0154	1	Pin, Pinion Gear (No Longer Available)
2	191-1017	1	Coil Assembly, Field	15	191-0451	1	Spacer, Armature to Adapter
3	191-0513	1	Brush Set, Service	16	191-0446	1	Adapter (No Longer Available)
4	191-1018	1	Head Assembly, Commutator End	17	191-0329	1	Bushing, Adapter
5	191-1018	1	Band, Cover (Not Sold Separately)	18	509-0092	1	Seal, Oil Armature Shaft - Front
10	191-1020	1	Spring, Brush (Set of 4)	19	509-0093	1	Seal, "O" Ring - Starter Motor Mounting
11	191-1021	1	Washer, Armature Thrust (Package) Use as Required				
12	191-1022	1	Stud, Terminal (Package)				

## **OPTIONAL PARTS SECTION**

This section contains illustrated parts listing of factory installed options for the generator sets. Options may not be applicable to all models; for field conversions additional parts are usually required. Optional parts listed in this section are in addition or in place of those shown in the standard parts section.

Fuel System - Optional  
(Gas and Gas-Gasoline)

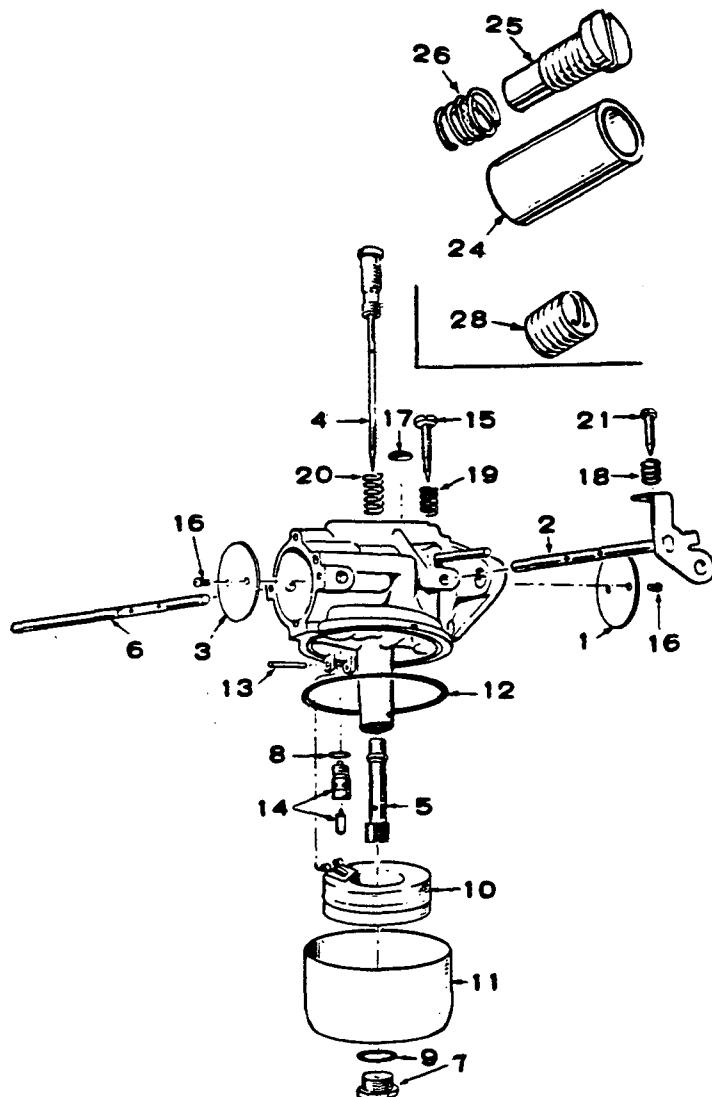


**Fuel System - Optional  
(Gas and Gas-Gasoline)**

REF. NO.	PART NO.	QTY USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Regulator, Gas Algas Manufacturing Order 148-0311	19	505-0135	4	Nipple, Half (3/8 x 1-1/2") - Hose Connection - LPG Sets - Key 1,2
2	148-0311	1	Garretson Manufacturing Carburetor Kit (See Separate Group for Components and Service Kits) (Includes Parts Marked +) Gas Fueled Sets Spec A through Q	19A	505-0110	1	Nipple, Half (1/4 x 1") - Hose Connection - LPG Sets - Key 1,2 Elbow, Street - LPG Sets - Key 1,2
141-0757	1	1	Begin Spec R	20		4	* 3/8 x 90°
141-0889	1	1	Gas-Gasoline Fueled Sets Spec A through Q	505-0120	505-0120	3	§ 3/8 x 90°
141-0758	1	1	Begin Spec R	21			Nipple, Hose Connection - LPG Sets - Key 1,2
141-0886	1	1	+Gasket, Carburetor Mounting	505-0101	505-0101	2	* 3/8 x 3"
2A 154-0733	1	1	Hose, Regulator to Carburetor (1/2 ID x 34" Long)	21A	505-0076	1	§ 3/8 x 3"
3 503-0159	1	1	Clamp, Gas Hose Spec A through Z	22			*Nipple (3/8 x 3") - Hose Connector - LPG Sets - Key 1,2
4 503-0032	2	2	Begin Spec AA	505-0120	505-0022	1	Bushing, Reducer - LPG Sets - Key 1,2
5 148-0519	1	1	Connector, Hose - Regulator	23		1	* 3/4 x 3/8"
6 505-0101	1	1	Nipple (3/8 x 1") - Regulator Outlet	505-0017	505-0018	1	§ 1 x 1/2"
6A 505-0057	1	1	Elbow (3/8") - Regulator Outlet	505-0060	505-0060	2	Bushing, Reducer - LPG Sets - Key 1,2
7 505-0039	1	1	Plug (1/8") - Regulator Outlet	24	503-0183	1	* 3/8 x 1/4"
8 505-0128	1	1	Elbow (1-1/4" x 3/8") - Algas Regulator Outlet	505-0060	505-0060	1	§ 1/2 x 1/4"
9 148-0107	2	2	Vent, Regulator and Converter	25	503-0183	4	Tee, Pipe - LPG Sets - Key 1,2
10 504-0007	1	1	Valve, Shutoff (Mounts at Fuel Pump Inlet) - Gas- Gasoline Sets	25A	503-0032	2	* 3/8"
11 502-0020	1	1	Elbow, Street - Fuel Pump Inlet (Gas-Gasoline Sets)	26	503-0586	1	§ 3/8"
12 307-0615	1	1	Primer, Solenoid	27	503-1025	1	Clamp, Hose - LPG Sets - Key 1,2
13 149-0638	1	1	Plate, Fuel Pump Hole Cover - Gas Only Sets	28	505-0011	1	Hose, Gas - LPG Sets - (1/2 ID x 34" Long)
14 148-0714	1	1	Converter, LPG Sets - Key 1,2 (See Note)	29	336-1844	1	Elbow, Street - LPG Sets - Key 1,2 (1/4 x 90°)
15 148-0546	1	1	Bracket, Converter Mounting - LPG Sets - Key 1,2	30	332-0529	1	Lead, 36" - LPG Sets - Key 1,2
16 148-0547	1	1	* Top, Unhoused Sets	31	332-0881	1	Terminal, Faston - LPG Sets - Key 1,2
17 148-0551	1	1	* Bottom, Unhoused Sets	32	143-0231	1	Terminal, Blade - LPG Sets - Key 1,2
17A 148-0667	1	1	* Housed Sets				Wire, Choke Lock - Gas- Gasoline Sets
18 148-0552	1	1	§ Housed and Unhoused Sets				+ - Parts Included in 141-0757 Carburetor Kit.
			* Brace, Converter Mounting - Housed Sets - Key 1,2 - LPG Sets				Parts Included in 141-0758 Carburetor Kit.
							Parts Included in 141-0886 Carburetor Kit.
							Parts Included in 141-0889 Carburetor Kit.

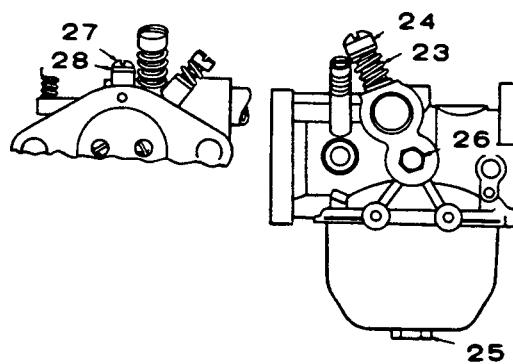
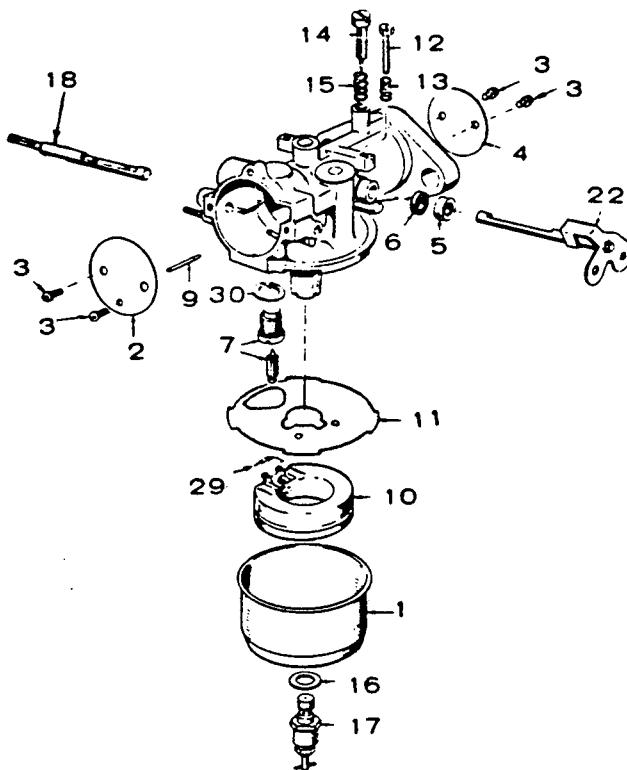
NOTE: Parts for LPG sets built prior to June 1, 1968 (two piece converter mounting brackets and water hoses connected on sides of converter) only are marked with \*. Parts for LPG sets built beginning June 1, 1968 (one piece converter mounting bracket and both water hoses connected on the top of converter) only are marked with an §. To order converter for sets built prior to June 1, 1968, also order all parts marked §.

**Carburetor Parts - Optional  
Gas-Gasoline and Gas Only - Spec A through Q**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	Carburetor			11	143-0210	1	Bowl
141-0758	Gas-Gasoline	1		12	143-0077	1	Gasket, Bowl Ring
141-0757	Gas Only	1		13	143-0212	1	Pin, Float (Not for Gas Only Carburetor)
141-0241	Repair Kit, Carburetor (No Longer Available)	1		14	143-0341	1	Valve, Fuel Inlet
141-0281	Gasket, Carburetor Flange (Illustrated in Fuel System Group)	1		15	143-0213	1	Screw, Idle Adjustment (2 for Gas-Gasoline Carburetor)
1 143-0202	Valve, Throttle	1		16	812-0014	4	Screw, Round Head - Machine (#3-48 x 3/16")
2 143-0234	Shaft and Lever, Throttle	1		17	143-0110	1	Plug, Expansion
3 143-0204	Valve, Choke	1		18	143-0214	1	Spring, Throttle Adjustment
4 143-0235	Needle, Idle Jet and High Speed Adjustment	1		19	143-0112	1	Spring, Idle Adjustment (2 for Gas-Gasoline Carburetor)
5 143-0237	Nozzle (Not for Gas Only Carburetor)	1		20	143-0114	1	Spring, High Speed Adjustment
6 143-0316	Shaft, Choke - Gas-Gasoline Carburetor - Spec C through P	1		21	143-0215	1	Screw, Throttle Adjustment
7 143-0208	Screw and Gasket, Bowl	1		24	145-0308	1	Tube, Gas Inlet
8 143-0015	Gasket, Fuel Inlet Valve	1		25	148-0589	1	Needle, Gas Adjustment
9 143-0209	Gasket	1		26	148-0590	1	Spring, Gas Adjustment
10 143-0105	Float and Lever (Not for Gas Only Carburetor)	1		28	505-0008	1	Plug (1/8") - Gas Only Sets

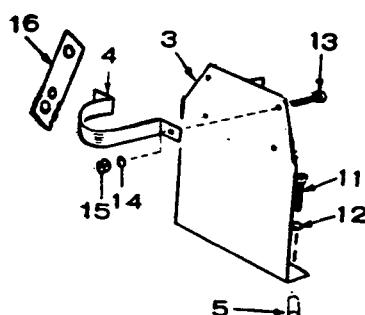
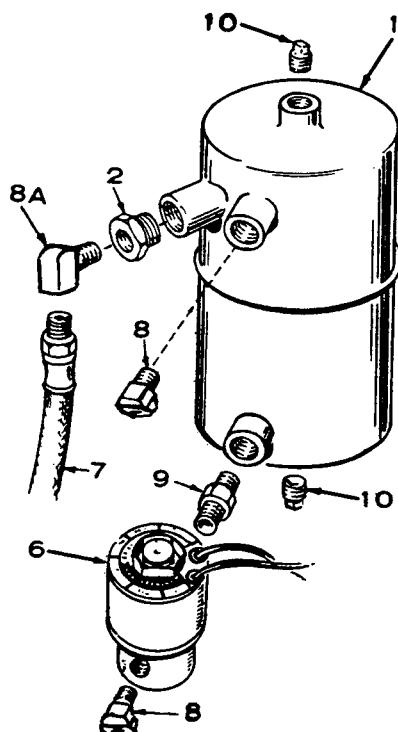
**Carburetor Parts - Optional  
Gas-Gasoline and Gas Only  
Begin Spec R**



**Carburetor Parts - Optional  
Gas-Gasoline and Gas Only  
Begin Spec R**

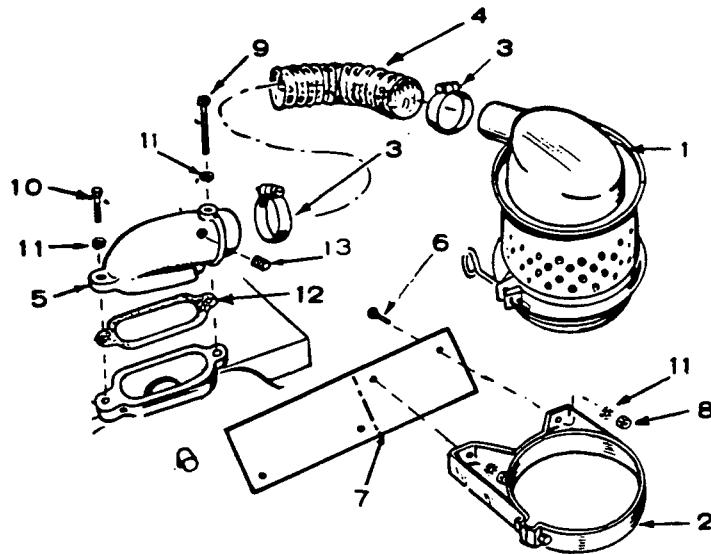
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor	13	141-0711	1	Spring, Throttle Stop
	141-0886	1	Gas-Gasoline	14	141-0713	2	Needle, Idle Adjusting
	141-0889	1	Gas Only	15	141-0710	2	Spring, Idle Needle
	141-0747	1	Repair Kit (Includes Parts Marked *)	16	141-0077	1	+*Washer, Main Jet Assembly
	141-0748	1	Gasket Kit (Includes Parts Marked +)	17	141-0712	1	Jet Assembly, Main (Adjustable) (Not used on Gas Only Sets)
	141-0281	1	*+ Gasket, Carburetor Flange	18	141-0679	1	Shaft, Choke - Electric
	154-0733	1	Gasket, Carburetor Mounting	22	141-0735	1	Shaft and Lever Throttle
1	141-0708	1	Bowl, Fuel	23	141-0733	1	Spring, Main Gas Needle - Gas and Gas-Gasoline Sets
2	141-0771	1	Plate, Choke (Not used on Gas Only Sets)	24	141-0734	1	Needle, Main Gas Adjusting - Gas and Gas-Gasoline Sets
3	141-0698	4	Screw and Washer, Choke and Throttle Plate Mounting (2 used on Gas Only Sets)	25	141-0736	1	Nut, Bowl - Gas Only Sets
4	141-0793	1	Plate, Throttle	26	141-0737	1	Plug, Pipe (1/8") - Gas Only Sets
5	141-0705	1	*Retainer, Seal	27	141-0738	1	Screw - Gas Only Sets
6	141-0661	1	*+Seal, Rubber	28	141-0739	1	Washer, Gas Only Sets
7	141-0830	1	*Valve Seat Assembly, Fuel (Not used on Gas Only Sets)	29	141-0799	1	*Spring, Float (Not used on Gas Only Sets)
9	141-0703	1	*Shaft, Float (Not used on Gas Only Sets)	30	141-0811	1	+*Washer, Fuel Valve Seat
10	141-0702	1	Float Assembly (Not used on Gas Only Sets)				* - Parts Included in Repair Kit 141-0747. + - Parts Included in Gasket Kit 141-0748.
11	141-0701	1	*+Gasket, Bowl to Body				
12	141-0700	1	Screw, Throttle Stop				

### Reservoir (Day) Tank - Optional



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-0294	1	Tank, Reservoir One Quart	8	502-0053	2	Elbow, 45° - (1) Solenoid Valve to Carburetor Line
	159-0746	1	Two Quart				(1) Reservoir Tank to Fuel
2	159-0705	1	Reducer, Restricted	8A	502-0020	1	Pump Line - Two Quart Tank
3	159-0759	1	Bracket, Tank Mounting One Quart Tank				Elbow, 90° - Reservoir Tank
	159-0826	1	Two Quart Tank	9	502-0082	1	to Fuel Pump Line - One
4	159-0121	1	Band, Tank Mounting One Quart Tank	10	505-0057	2	Quart Tank
	159-0825	1	Two Quart Tank	11	800-0039	2	Nipple
5	159-0761	2	Spacer, Mounting Bracket to Rocker Cover	12	850-0045	2	Plug
6	307-0565	1	Valve, Solenoid (12 Volt)	13	800-0007	2	Screw, Cap - Hex Head - Day
7	501-0005	1	Line, Fuel				Tank Bracket Mounting (5/16-18 x 3-1/2")
	501-0008	2	Reservoir Tank to Main Tank (1) Fuel Pump to Reservoir	14	850-0040	2	Washer, Lock - Day Tank
			Tank (1) Reservoir Tank to Carburetor - Two Quart Tank	15	862-0001	2	Bracket Mounting (1/4")
	501-0007	1	Fuel Pump to Reservoir Tank - One Quart Tank	16	159-0523	2	Washer, Lock - Day Tank
	501-0004	1	Reservoir Tank to Carburetor - One Quart Tank				Bracket Mounting (1/4-20)
							Spacer, Bracket (Used on 1 Quart Tank Only)

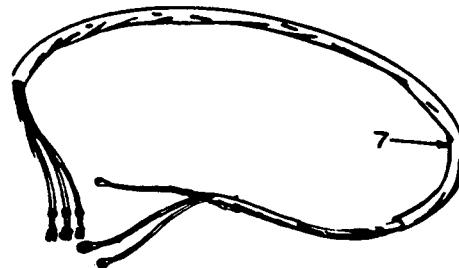
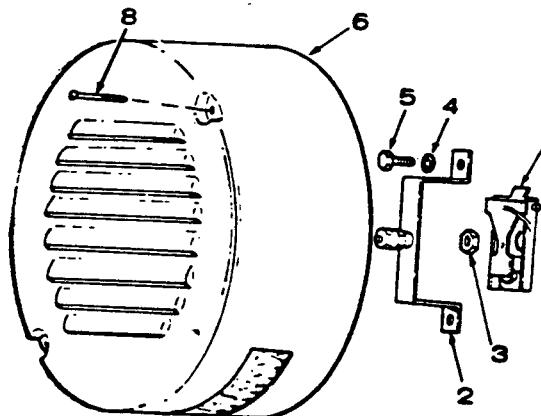
# Oil Bath Air Cleaner - Optional



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	140-0677	1	Conversion Kit, Oil Bath Air Cleaner (Includes Parts Marked *)	7	140-0798	1	Bracket, Air Cleaner - Mounting (Mount on Intake Manifold) (No Longer Available)
1	140-0500	1	*Cleaner, Air - Oil Bath	8	862-0001	2	*Nut, Hex (1/4-20)
2	140-0519	1	*Band, Air Cleaner	9	800-0015	1	*Screw, Cap - Hex Head (1/4-20 x 3")
3	503-0274	2	*Clamp, Hose	10	800-0007	1	*Screw, Cap - Hex Head (1/4-20 x 1")
4	503-0444	1	*Hose, Air Cleaner to Adapter (2" ID x 30")	11	850-0040	4	*Washer, Lock (1/4")
5	140-1212	1	*Adapter, Air Cleaner	12	140-0584	1	*Gasket, Adapter Mounting
6	800-0003	2	*Screw, Cap - Hex Head (1/4-20 x 1/2")	13	505-0008	1	*Plug, Slotted (1/8" Dia.)

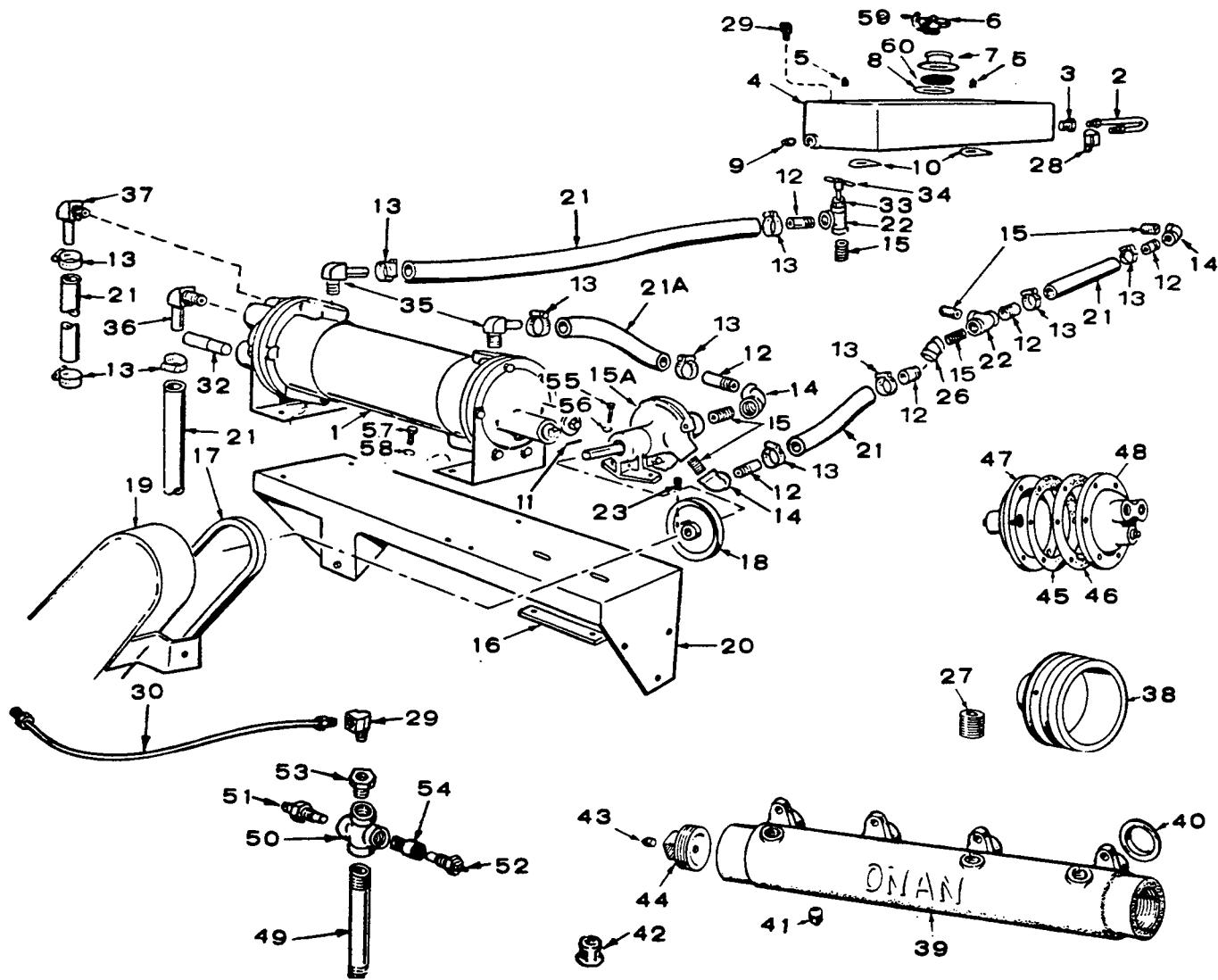
\* - Parts Included in 140-0677 Conversion Kit.

**Overspeed Switch - Optional**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	150-1661	1	Switch Assembly - Overspeed	5	813-0100	2	Screw, Round Head - Machine
	150-0956	1	50 Hz				(10-32 x 1/2") Overspeed
			60 Hz				Bracket and Point Assembly
2			Bracket and Point Assembly, Overspeed	6			Mounting
	150-0958	1	Spec A through Z	234-0498		1	Cover, Endbell
	150-1446	1	Begin Spec AA	234-0223		1	Unhoused Units
3	868-0004	1	Nut, Hex - Jam (7/16-20)	7	338-0768	1	Housed Units
			Overspeed Switch Mounting	8	812-0167	2	Harness, Wiring - Overspeed
4	850-0030	2	Washer, Lock (#10) Overspeed				Screw, Round Head - Machine
			Bracket and Point Mounting				(1/4-20 x 6")

**Heat Exchanger (Key 3,4)**  
**Optional**



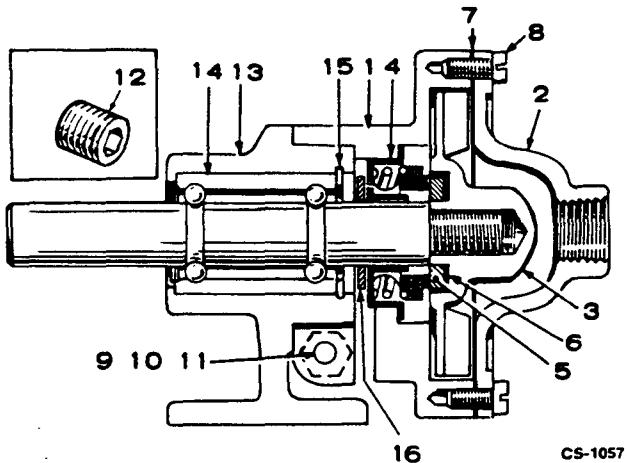
### Heat Exchanger (Key 3,4) - Optional

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-0624	1	Exchanger, Heat	32	130-1340	2	Pencil, Zinc (Included in Heat Exchanger)
2	130-0575	1	Line, Water - Expansion Tank to Exhaust Manifold	33	502-0049	1	Bushing, Reducer (3/8 x 1/8")
3	502-0103	1	Connector, Inverted Male - Expansion Tank Outlet	34	504-0006	1	Valve, Air Bleed - Manifold Outlet
4	130-0646	1	Tank, Expansion	35	502-0300	2	Elbow, Heat Exchanger - Fresh Water Hoses - Begin Spec C
5	502-0080	2	Plug, Expansion Tank Fill Vent	36	502-0302	1	Elbow, Heat Exchanger - Raw Water Inlet Hose - Begin Spec C
6	130-0589	1	Cap, Pressure	37	502-0237	1	Elbow, Heat Exchanger - Raw Water Outlet Hose - Begin Spec C
7	130-0590	1	Neck & Adapter, Expansion Tank Cap	38	104-0957	1	Pulley, Flywheel
8	130-0519	1	Gasket, Neck and Adapter Plug (3/8")	39	154-0723	1	Manifold, Exhaust - Water Cooled
9	502-0155	1	Gasket, Thermostat Chamber	40	154-1057	4	Gasket, Exhaust Manifold to Head
10	309-0145	2	Key, Pulley to Water Pump	41	505-0110	1	Plug, Pipe (3/8") - Manifold Water Drain
11	515-0249	1	Nipple (3/8 x 2") - Hose Connector	42	309-0130	2	Thermostat
12	505-0135	6	Clamp, Hose 1-1/16" 25/32"	43	502-0080	1	Plug (1/8"), Square Head Brass - Manifold End Plug
13	503-0183	9	Elbow (90° - 3/8")	44	505-0402	1	Plug, Exhaust Manifold End
	503-0446	2	Nipple (3/8")	45	130-0729	1	Gasket, Heat Exchanger - Fresh Water End
14	505-0039	3	Pump, Centrifugal Water (See Separate Group for Components)	46	130-0730	1	Gasket, Heat Exchanger - Raw Water End
15	505-0101	6	NOTE: When Replacing Water Pump with Flat Area on Shaft Also Order 1 each of 132-0252 Pulley and Set Screw Kit and 515-0249 Key.	47	130-0731	1	Bonnet, Heat Exchanger - Fresh Water End
15A	132-0110	1	Bar, Pump Hold-down	48	130-0732	1	Bonnet, Heat Exchanger - Raw Water End
16	131-0130	1	Belt, Centrifugal Water Pump	49	505-0224	1	Nipple, Pipe (3/8 x 4-1/2")
17	511-0067	1	Pulley, Centrifugal Water Pump	50	505-0475	1	Cross, Pipe (3/8")
18	512-0134	1	Pulley, Centrifugal Water Pump Sets With Flat Area on Water Pump Shaft (Includes Parts Marked *)	51	309-0178	1	Switch, High Water Temperature Cut-Off
	132-0252	1	Sets With Keyed Area on Water Pump Shaft (Includes Parts Marked *)	52	193-0104	1	Sender Unit - Water Temperature
19	130-0591	1	Guard, Belt	53	505-0016	1	Bushing, Reducer (3/8 x 1/8")
	130-0920	1	Spec A through Z	54	309-0081	1	Extension, Pipe - Temperature Switch
20			Begin Spec AA	55	800-0005	2	Screw, Cap - Hex Head Water Pump Mounting (1/4-20 x 3/4")
	130-0587	1	Bracket, Heat Exchanger & Governor Spring	56	850-0040	2	Washer, Lock - Water Pump Mounting (1/4)
	130-0692	1	Spec A through Q	57	800-0004	4	Screw, Cap - Hex Head - Heat Exchanger Mounting (1/4-20 x 5/8")
21	503-1196	1	Begin Spec R	58	850-0040	4	Washer, Lock - Heat Exchanger Mounting (1/4")
			Hose, Rubber (3/4" ID x 56" Total length required for all hoses) (except raw water pump)	59	503-0679	1	Hose, Overflow (5/16 ID x 13")
21A	503-0890	1	Hose, Rubber (1/2" ID x 14") Raw Water Pump to Heat Exchanger	60	130-0892	1	Stiffener, Filler Neck
22	505-0060	2	Tee (3/8")				Repair Kit, Water Pump (Early Models)
23	803-0062	1	*Screw, Set (5/16-18 x 5/16")				For Oberdorfer No. 50P11 (Spec A through Q)
26	505-0376	1	Elbow, 45°	132-0080	1		
27	505-0266	1	Plug (3/8"), Exhaust Manifold				
28	502-0074	1	Elbow, Inverted Male - Manifold Water Line Inlet				
29	502-0037	2	Elbow, Heat Exchanger to Line				
30	130-0813	1	Line, Heat Exchanger to Cylinder Head				

\* - Parts Included in 132-0252 Water Pump Pulley Kit.  
 Parts Included in 512-0134 Water Pump Pulley Kit.

## Water Pump Parts (Key 3,4) - Optional

**NOTE:** This pump used on sets with optional heat exchanger.



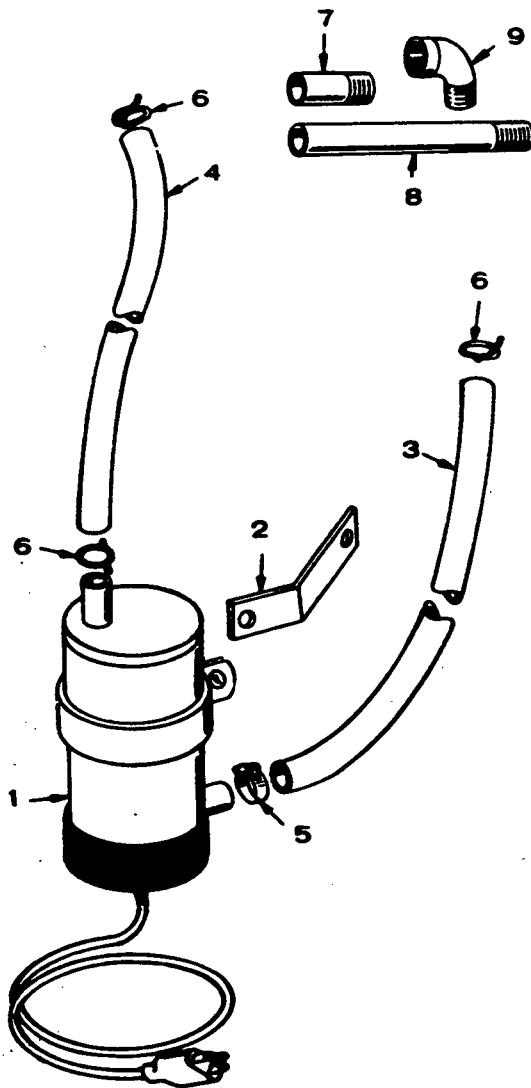
CS-1057

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	132-0110	1	Pump, Water Repair Kit, Water Pump	10	132-0139	1	Lockwasher - Used on Early Style Pumps
	132-0241	1	Sets With Flat Area on Shaft (Includes Water Pump Pulley, Set Screw, Key and Parts Marked *)	11	132-0140	1	Nut, Hex - Used on Early Style Pumps
	132-0240	1	Sets With Keyed Area on Shaft (Includes Parts Marked #)	12	132-0141	1	Plug, Drain - Used on Early Style Pumps
1	132-0137	1	Body, Pump (Not Sold Separately)	13		1	Pedestal
2	132-0137	1	Cover, Pump	14		1	Shaft and Bearing Assembly
3	132-0114	1	**#Impeller	132-0239		1	* Sets With Flat Area on Shaft (Repair Kit - Also Includes Water Pump Pulley, Set Screw and Key)
4	132-0101	1	**#Seal	132-0225		1	# Sets With Keyed Area on Shaft
5	132-0091	1	**#Face, Wear	15	132-0132	1	Ring, Snap
6	132-0092	1	**#Seat, Seal	16	132-0224	1	Slinger, Fiber
7	132-0112	1	**#Gasket, Cover				
8	132-0113	6	**#Screw, Cover				
9	132-0138	1	Screw, Cap - Used on Early Style Pumps				

\* - Parts Included in 132-0241 Repair Kit.  
 # - Parts Included in 132-0240 Repair Kit.

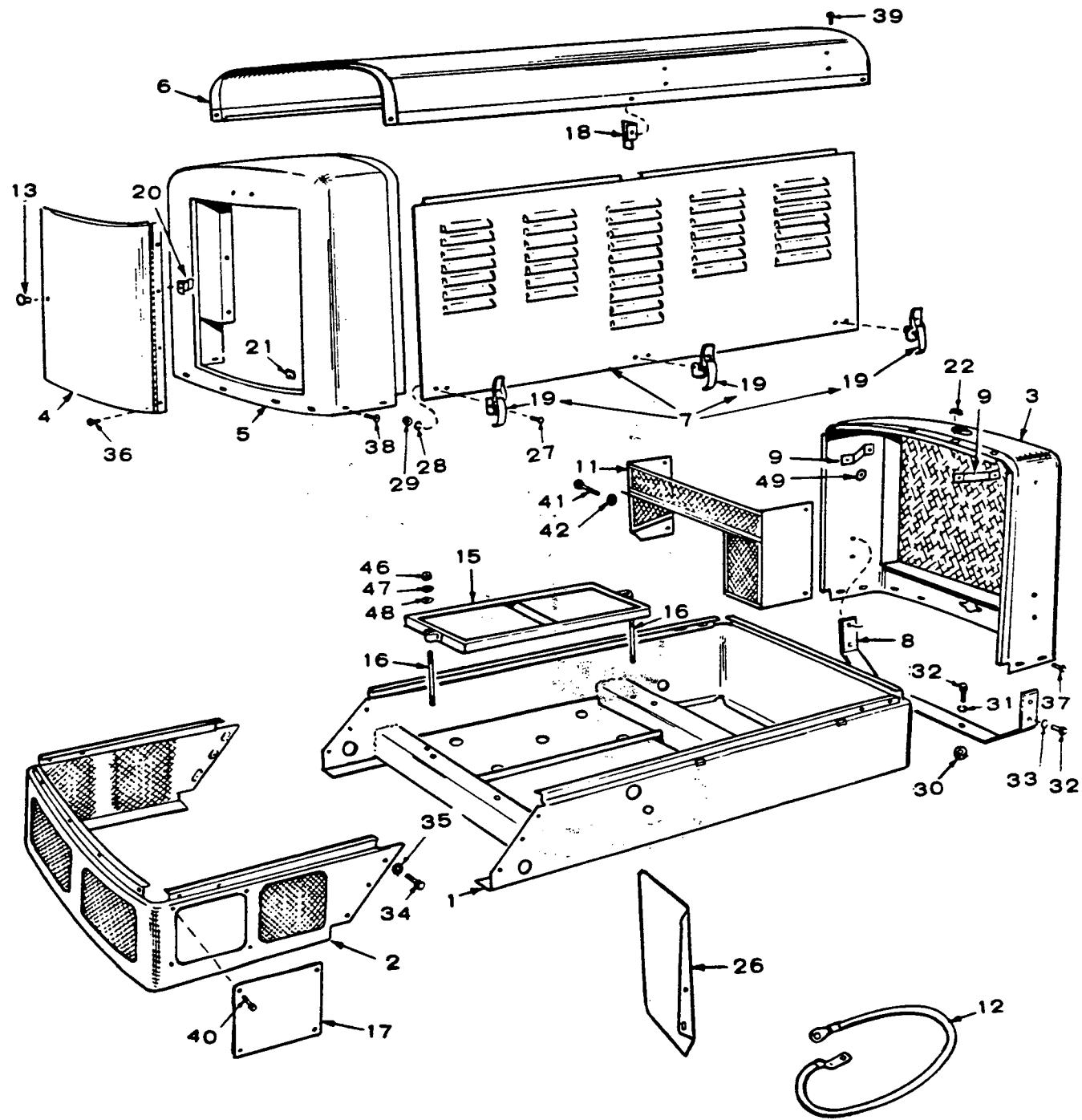
**NOTE:** This pump used on sets with optional heat exchanger.

**Engine Coolant Heater - Optional**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0054	1	Heater, Water Jacket	5	503-0183	4	Clamp, Hose - Lower Heater
2	130-0755	1	Bracket, Heater	7	505-0135	1	Nipple, Half
3	503-0565	1	Hose (5/8" ID x 20" Lg)	8	505-0273	1	Nipple, Half
4	503-0566	1	Hose (5/8" ID x 18" Lg)	9	502-0075	1	Elbow, Street

Housing and Chassis - Optional



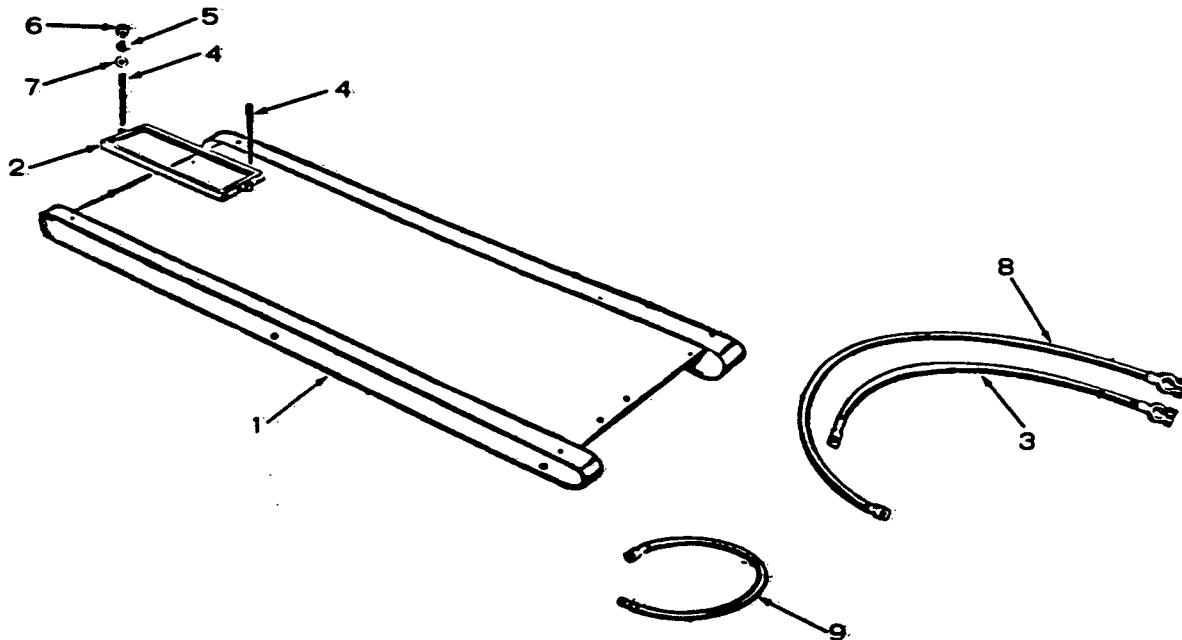
## Housing and Chassis - Optional

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	405-2526	1	Housing Kit (Includes Parts Marked *)	30	862-0003	4	*Nut, Hex - Radiator Support (Housed Sets) (3/8-16)
1			Chassis, Mounting - Front Section	31	850-0050	2	*Washer, Lock - Radiator Support (Housed Sets) (3/8")
	403-0658	1	Spec A Only (No Longer Available)	32	800-0024	4	*Screw, Cap - Hex Head - Radiator Bracket to Radiator (5/16-18 x 1/2") Housed Sets
2	403-0718	1	Begin Spec B	33	800-0045	4	Washer, Lock - Radiator Bracket to Radiator (5/16) - Housed Sets
2	403-0477	1	*Chassis, Rear Section - Housed Sets	34	800-0047	6	*Screw, Cap - Hex Head - Rear Chassis to Front Chassis (3/8-16 x 5/8") - Housed Sets
3	405-1079	1	Panel, Front End (Radiator Grille)	35	850-0050	6	Washer, Lock Rear Chassis to Front Chassis (3/8) - Housed Sets
4	405-1080	1	*Panel, Rear Door - Housed Sets	36	809-0059	4	*Screw, Machine - Pan Head - Control Door to Panel (Housed Sets) - (1/4 x 1/2")
5	405-1081	1	*Panel, Rear End (Does NOT Include Door) - Housed Sets	37	821-0014	8	* Front Panel to Chassis - Housed Sets
6	405-1319	1	*Panel, Top - Housed Sets	38	821-0014	10	* Rear Panel to Chassis - Housed Sets
7	405-1084	2	*Housing, Side (Includes Fasteners) - Housed Sets	39	821-0014	12	* Front and Rear Panel to Top Panel - Housed Sets
8	130-0396	1	Support, Radiator Mounting	40	800-0024	6	*Screw, Cap - Hex Head - Chassis Panel Door (5/16-18 x 1/2")
9	130-0397	2	Bracket, Radiator	41	800-0048	4	Screw, Cap - Hex Head - Fan Guard to Radiator (3/8-16 x 3/4") - Housed Sets
11	130-0623	1	Guard, Fan	42	850-0050	4	*Washer, Lock - Fan Guard to Radiator (3/8) Housed Sets
12	336-0476	1	Cable, Ground Strap (NOTE: Quantity of 2 for Unhoused Sets)	46	862-0015	4	Nut, Hex - Battery Hold-down (5/16-18) - Housed Sets
13	406-0002	1	*Knob, Rear Door Panel - Housed Sets	47	526-0024	2	Washer, Flat - Battery Hold-down (21/64" ID x 3/4" OD x 1/16" Thk) - Housed Sets
15	416-0495	1	Frame, Battery Hold-down	48	850-0045	4	Washer, Lock - Battery Hold-down (5/16) - Housed Sets
16	520-0669	2	Stud, Battery Hold-down Frame	49	526-0013	16	Washer, Flat - Radiator Support Bracket (25/64" ID x 1" OD x 1/16" Thk)
17	403-0373	1	*Panel, Chassis - Housed Sets				
18	405-1181	2	*Stop, Drive - Housing Side Panel - Housed Sets				
19	406-0105	6	Fastener, Side Panel - Housed Sets				
20	406-0088	1	*Catch, Rear Door Panel - Housed Sets				
21	870-0106	4	*Nut, Speed - Rear Door Panel Mounting - Housed Sets				
22	870-0113	18	*Nut, Retaining (12) Rear End Panel to Housing Top - Housed Sets				
26	155-0848	1	Shield, Muffler Heat				
27	813-0098	12	Screw, Cap - Hex Head - Housing Hold-Down (Housed Sets) (10-32 x 3/8")				
28	850-0030	12	Washer, Lock - Housing Hold-down (Housed Sets) (#10)				
29	870-0053	12	Nut, Hex - Housing Hold-down (10-32)				

\* - Parts Included in 405-2526 Housing Kit.

NOTE: Parts in this group are for Parts Key 1,2 both housed and unhoused sets unless otherwise specified.

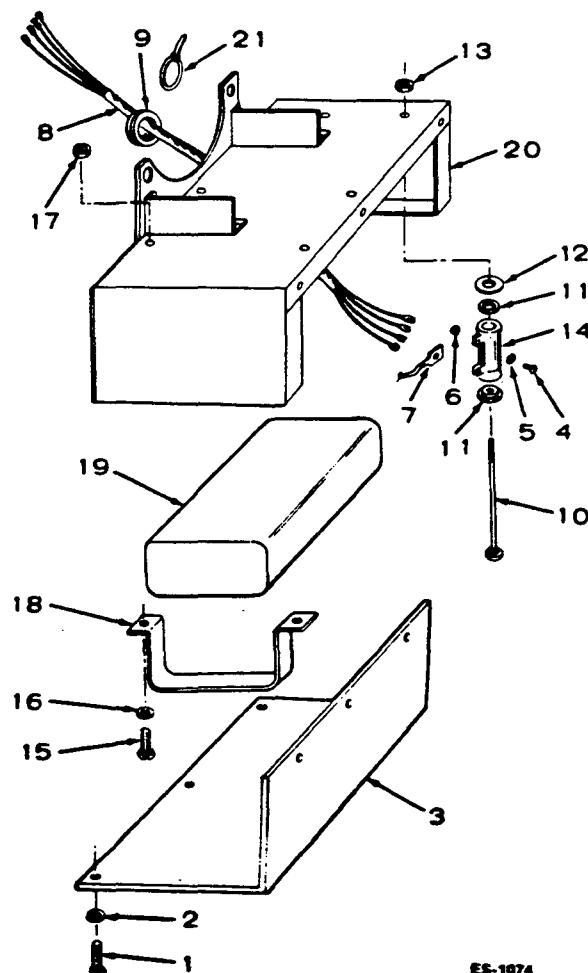
**Skid Base - Optional**



REF. NO.	PART NO.	QTY USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY USED	PART DESCRIPTION
	403-0792	1	Skid Base Assembly (Complete) - Includes Parts Marked *	6	862-0015	6	*Nut, Hex (5/16-18)
1	403-0661	1	*Skid	7	526-0115	2	*Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)
2	416-0502	1	*Frame, Battery Hold-down	8	416-0037	2	*Cable, Battery
3	416-0133	1	*Cable Assembly, Battery	9	336-0476	1	*Strap, Ground
4	520-0490	2	*Stud, Battery Hold-down				
5	850-0045	2	*Washer, Lock (5/16")				

\* - Parts Included in Skid Base Assembly 403-0792.

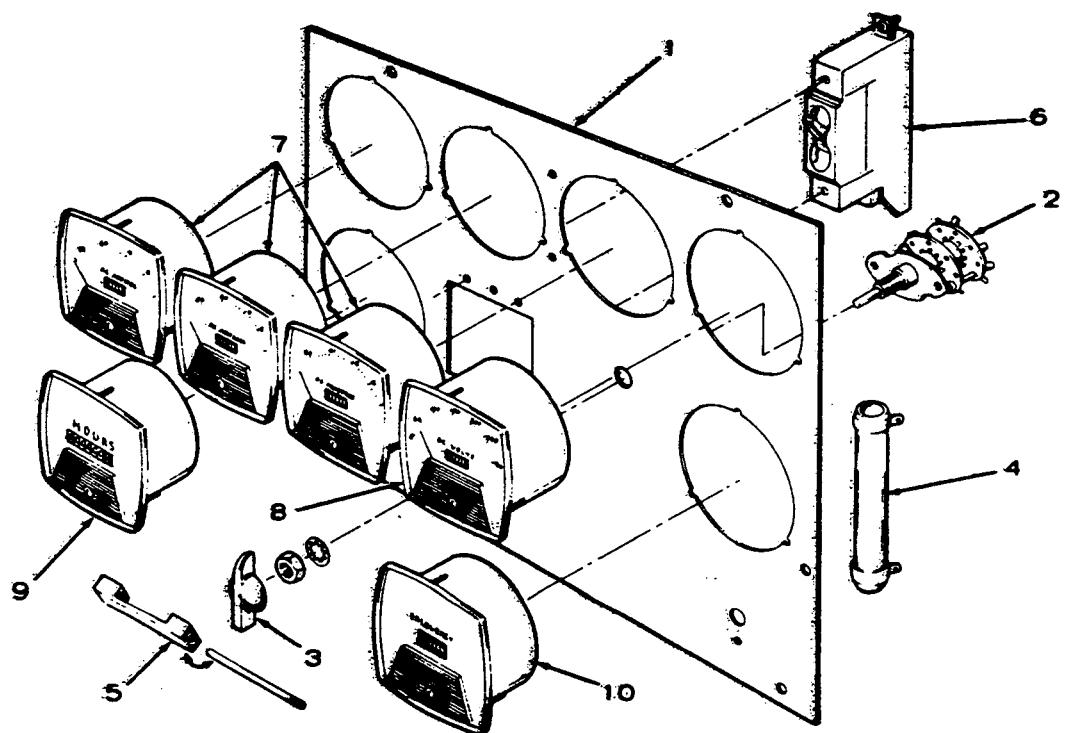
# Voltage Regulator Filter - Optional



ES-1074

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0098	6	Screw, Round Head - Machine (#10-32 x 3/8")	11	304-0015	4	Washer, Centering
2	850-0030	6	Washer, Lock - Spring (#10)	12	304-0292	2	Insulator, Resistor
3	232-2463	1	Cover, Housing	13	870-0053	2	Nut, Hex (#10-32)
4	815-0001	4	Screw, Binding Head - Machine Brass (#6-32 x 1/4")	14	304-0120	2	Resistor, Fixed (2 Ohm, 25 Watt)
5	853-0003	4	Washer, Lock - ET (#6)	15	812-0079	4	Screw, Round Head - Machine (#8-32 x 1/2")
6	860-0006	4	Nut, Hex (#6-32)	16	850-0025	4	Washer, Lock (#8)
7	332-1279	4	Terminal, Lug	17	860-0008	4	Nut, Hex (#8-32)
8	338-1165	1	Harness, Wiring	18	312-0198	2	Bracket, Mounting - Capacitor
9	508-0071	1	Grommet, Rubber	19	312-0197	1	Capacitor
10	813-0112	2	Screw, Round Head - Machine (#10-32 x 2-1/2")	20	232-2462	1	Housing, Filter
				21	332-0942	2	Tie, Cable

**AC Meter Panel - Optional**

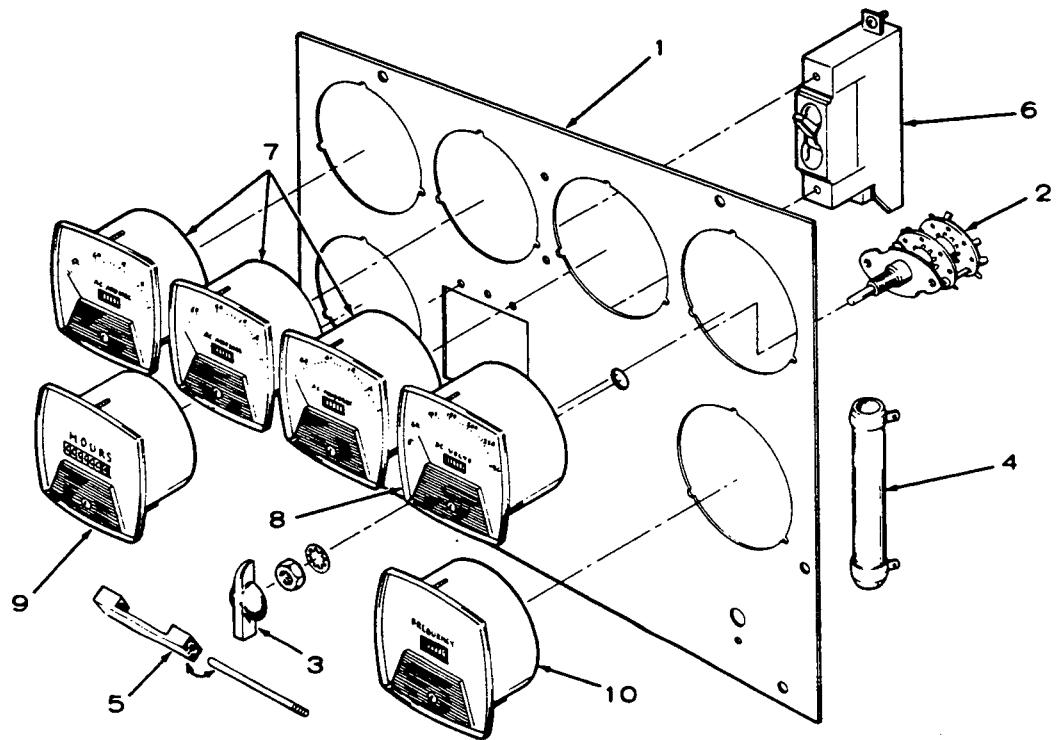


68C-1115

### AC Meter Panel - Optional

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel, Meter Panels with 3 Meters (Voltmeter, Ammeter, Running Time Meter)				Panels with 6 Meters (Ammeters (3), Voltmeter, Frequency Meter, Running Time Meter)
	301-1554	1	1R, 120 Volt, 1 Phase, 2 Wire, 60 Hertz - 51R, 120 Volt, 1 Phase, 2 Wire, 50 Hertz	301-2204		1	4R, 54R, 120/208 Volt, 3 Phase, 4 Wire, 50, 60 Hertz - 5DR, 55DR, 120/240 Volt, 3 Phase, 4 Wire, 50, 60 Hertz - 8R, 58R, 127/220 Volt, 3 Phase, 4 Wire, 50, 60 Hertz
	301-1602	1	4XR8, 277/480 Volt, 3 Phase, 4 Wire, 60 Hertz				4XR, 277/480 Volt, 3 Phase, 4 Wire, 50, 60 Hertz - 7R, 57R, 220/380 Volt, 3 Phase, 4 Wire, 50, 60 Hertz
	301-3583	1	4XR, 277/480 Volt, 3 Phase, 4 Wire, 60 Hertz Note: This Panel has Opening for Wattmeter Number 302-0883)	301-2308		1	4XR, 277/480 Volt, 3 Phase, 4 Wire, 50, 60 Hertz 9XR, 347/600 Volt, 3 Phase, 4 Wire, 50, 60 Hertz - 99R, 347/600 Volt, 3 Phase, 4 Wire, 60 Hertz
			Panels with 4 Meters (Ammeter, Voltmeter, Running Time Meter and Frequency Meter)	301-2397		1	18R, 120/208 Volt, 3 Phase, 4 Wire, 60 Hertz - 120/240 Volt, 1 Phase, 3 Wire, 60 Hertz
	301-1551	1	3R, 53R - 120/240 Volt, 1 Phase, 3 Wire, 50, 60 Hertz (Note: This Panel Uses 2 Ammeters, 1 Volt- meter and 1 Running Time Meter)	301-3732		1	Switch, Voltage Selector - Three Phase Sets
	301-1641	1	2R, 52R, 240 Volt, 1 Phase, 2 Wire, 50, 60 Hertz	2	308-0012	1	Knob, Voltage Selector Switch - Three Phase Sets
			Panels with 5 Meters (Ammeter (3), Voltmeter, Running Time Meter)	3	303-0076	1	Resistor, Fixed (9,000 Ohm, 50 Watt) Running Time Meter - 600 Volt Sets
	301-2288	1	3R, 120/240 Volt, 1 Phase, 3 Wire, 60 Hertz - 53R, 120/240 Volt, 1 Phase, 3 Wire, 50 Hertz Note: This Panel uses 1 Frequency Meter, 2 Ammeters, 1 Voltmeter and 1 Running Time Meter)	4	304-0536	1	Bar, Circuit Breaker Tie Sets With 3 Circuit Breakers
	301-2330	1	4XR, 277/480 Volt, 3 Phase, 4 Wire, 60 Hertz	5	320-0187	1	Sets With 2 Circuit Breakers
	301-2372	1	9XR, 347/600 Volt, 3 Phase, 4 Wire, 50, 60 Hertz		320-0202	1	
	301-2453	1	3R, 120/240 Volt, 1 Phase, 3 Wire, 60 Hertz - 4R, 120/208 Volt, 3 Phase, 4 Wire, 60 Hertz - 4XR, 277/480 Volt, 3 Phase, 4 Wire, 60 Hertz (Note: This Panel can also use 2 Ammeters, 1 Voltmeter, 1 Running Time Meter and 1 Frequency Meter - Pennsylvania Approved Sets)				

**AC Meter Panel - Optional**

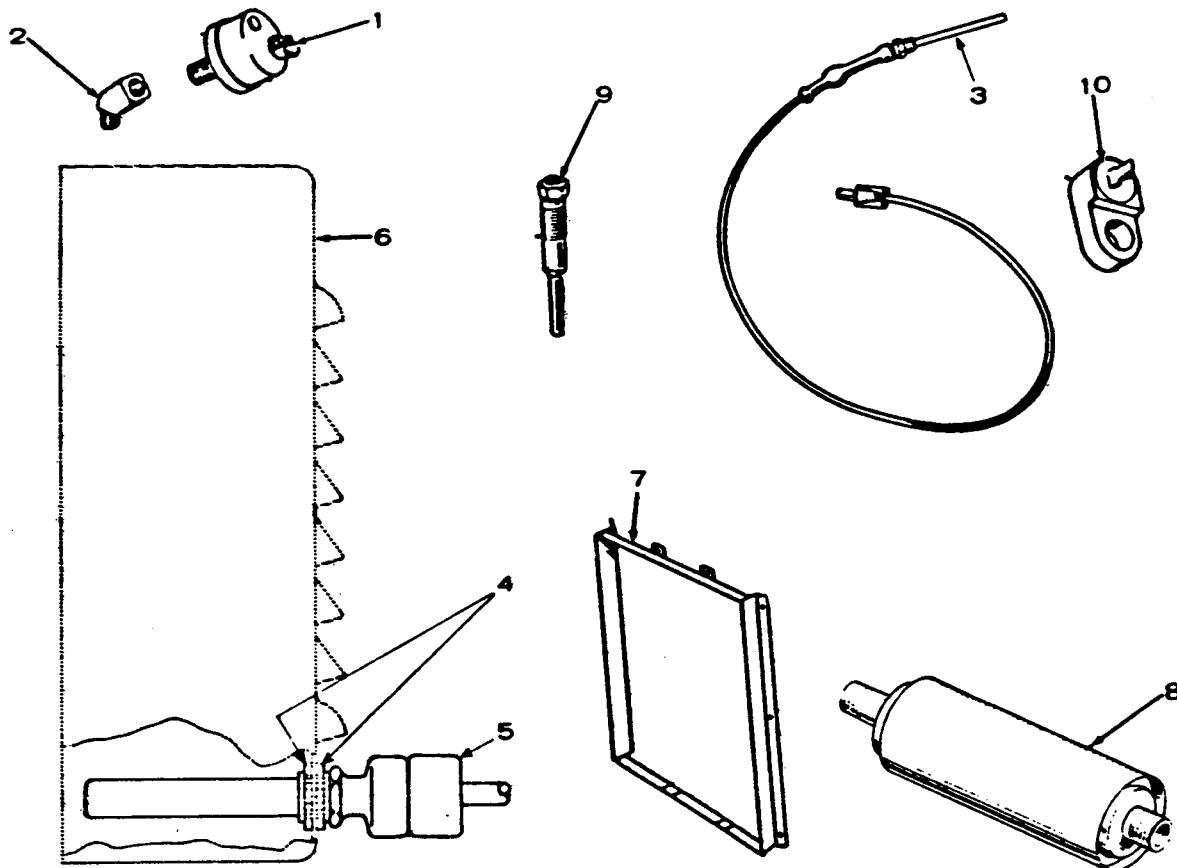


XSC-1115

### AC Meter Panel - Optional

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Breaker, Circuit (Check Original Part - Select According to Amperage and Voltage)	8			Voltmeter, AC (Check Scale - Select Accordingly)
	320-0153	1	40 Amp, 240 Volt (Single Pole)	302-0421	1	Scale Reads 0-300	
	320-0198	1	45 Amp, 240 Volt (Single Pole)	302-0422	1	Scale Reads 0-600	
	320-0052	1	50 Amp, 240 Volt (Single Pole)	302-0423	1	Scale Reads 0-750	
	320-0195	1	55 Amp, 240 Volt (Single Pole)	9			Meter, Running Time (Check Meter Face for Part Number)
	320-0021	1	60 Amp, 240 Volt (Single Pole)	302-0465	1	120 Volt, 60 Hertz	
	320-0366	1	65 Amp, 240 Volt (Single Pole)	302-0466	1	220 Volt, 60 Hertz	
	320-0148	1	70 Amp, 240 Volt (Single Pole)	302-0467	1	480 Volt, 60 Hertz	
	320-0367	1	75 Amp, 240 Volt (Single Pole)	302-0468	1	120 Volt, 50 Hertz	
	320-0251	1	100 Amp, 240 Volt (Single Pole)	302-0469	1	220 Volt, 50 Hertz	
	320-0486	1	20 Amp, 480 Volt (3 Pole Companion)	302-0470	1	480 Volt, 50 Hertz	
	320-0487	1	25 Amp, 480 Volt (3 Pole Companion)	10			Meter, Frequency - Optional (Check Meter Face for Part Number)
	320-0488	1	30 Amp, 480 Volt (3 Pole Companion)	302-0213	1	100 through 150 Volt, 60 Hertz	
	320-0514	1	15 Amp, 600 Volt (3 Pole Companion)	302-0221	1	200 through 250 Volt, 60 Hertz	
	320-0459	1	20 Amp, 600 Volt (3 Pole Companion)	302-0716	1	480 Volt, 60 Hertz	
	7		Ammeter, AC (Check Scale - Select Accordingly)	302-0717	1	600 Volt, 60 Hertz	
	302-0460	1	Scale Reads 0-20	302-0234	1	100 through 150 Volt, 50 Hertz	
	302-0418	1	Scale Reads 0-30	302-0256	1	200 through 250 Volt, 50 Hertz	
	302-0444	1	Scale Reads 0-35	302-0825	1	480 Volt, 50 Hertz	
	302-0419	1	Scale Reads 0-50	302-0788	1	600 Volt, 50 Hertz	
	302-0458	1	Scale Reads 0-80				

### Miscellaneous Optional Parts



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0169	1	Switch, Low Oil Pressure Closes at 14 lbs. Pressure	7	405-1157	1	Flange, Air Duct Adapter
	309-0064	1	Closes at 9 lbs. Pressure	8	155-0360	1	Muffler, Critical Type
2	502-0053	1	Elbow (45°) Low Oil Pressure Cut Off Switch - Spec A & B	9	110-1282	1	Bolt, Lo Engine Temperature Switch (Special)
3	102-0558	1	Heater, Oil Base	10	309-0269	1	Switch, Lo Engine Temperature (Install under cylinder head bolt in center of engine)
4	331-0041	2	Nut, Lock (1/2") Begin Spec AA				
5	333-0157	1	Heater, Generator Space				
6			Cover, End Bell (Sets With Generator Heater)				
	234-0541	1	Housed Sets				
	234-0542	1	Sets Without Overspeed Switch				
	234-0543	1	Sets With Overspeed Switch				

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